PS-LX520

SERVICE MANUAL

US Model
Canadian Model
AEP Model
E Model

SILVER MODEL SHOWN

SPECIFICATIONS

Turntable

Platter	30 cm (12 in.), aluminum-alloy diecast
Motor	BSL (brushless and slotless) motor
Drive system	Direct drive
Control system	Quartz lock servo control system
Speed	33⅓ rpm, 45 rpm
Wow and flutter	0.03% (WRMS)*, 0.035% (WRMS) ±0.045% (DIN)
Signal-to-noise ratio	75 dB (DIN-B)
Automatic system	Lead-in, return, reject, repeat, arm up/down, record size selection
Speed deviation	Within ± 0.003%

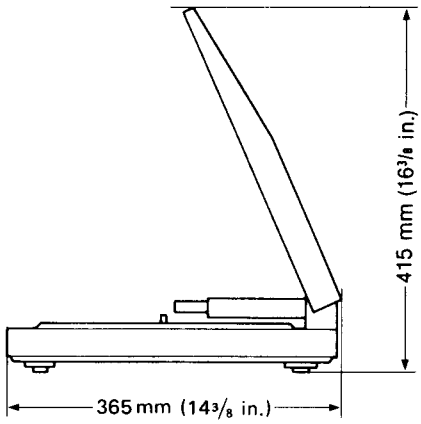
Tonearm

Type	Linear tracking tonearm
Pivot-to-stylus length	75 mm (3 in.)
Tracking error	±0.1°
Usable cartridge	plug-in type, 6 g

General

Power requirements	120 V ac, 60 Hz (US, Canadian model) 220 V ac, 50/60 Hz (AEP model) 110 – 220 V, 120 – 240 V ac, 50/60 Hz (E model)
Power consumption	10 W
Dimensions	Approx. 430 × 95 × 365 mm (w/h/d) (16⅞ × 3¾ × 14⅜ in.) including projecting parts and controls

With the dust cover opened.



— Continued on page 2 —

ATTENTION AU COMPOSANT AYANT RAPPORT À LA SÉCURITÉ!

LES COMPOSANTS IDENTIFIÉS PAR UNE TRAME ET UNE MARQUE ⚠ SUR LES DIAGRAMMES SCHÉMATIQUES ET LA LISTE DES PIÈCES SONT CRITIQUES POUR LA SÉCURITÉ DE FONCTIONNEMENT. NE REMPLACER CES COMPOSANTS QUE PAR DES PIÈCES SONY DONT LES NUMÉROS SONT DONNÉS DANS CE MANUEL OU DANS LES SUPPLÉMENTS PUBLIÉS PAR SONY.

SAFETY-RELATED COMPONENT WARNING!!

COMPONENTS IDENTIFIED BY SHADING AND MARK ⚠ ON THE SCHEMATIC DIAGRAMS AND IN THE PARTS LIST ARE CRITICAL TO SAFE OPERATION. REPLACE THESE COMPONENTS WITH SONY PARTS WHOSE PART NUMBERS APPEAR AS SHOWN IN THIS MANUAL OR IN SUPPLEMENTS PUBLISHED BY SONY.

MICROFILM

STEREO TURNTABLE SYSTEM

SONY®

AUD

Weight	Approx. 5 kg (11 lbs 0 oz), net Approx. 6.1 kg (13 lbs 7 oz), in shipping carton

* This new measuring method concerns only the turntable assembly, including the platter. It excludes wow and flutter caused by the tonearm, the cartridge, or the record. Measured by obtaining signal from magnetic pick-up head.

Cartridge VL-45G
(supplied only with Canadian and partial US model)

Type	Moving magnet
Frequency Response:	20 Hz – 20 kHz
Channel Separation:	20 dB at 1 kHz
Output Voltage:	3.5 mV at 1 kHz, 5 cm/sec., 45°
Load Impedance:	50 kΩ – 100 kΩ
Tracking Force:	1.0 – 1.5 g (1.25 g recommended)
Stylus:	Sony ND-145G
Weight:	6 g

Cartridge XL-250G (supplied only with AEP, E model)

Type:	Moving magnet
Frequency Response:	10 Hz – 20 kHz
Channel Separation:	23 dB at 1 kHz
Output Voltage:	5 mV at 1 kHz, 5 cm/sec., 45°
Load Impedance:	50 kΩ – 100 kΩ
Tracking Force:	1.0 – 1.5 g (1.25 g recommended)
Stylus:	Sony ND-250G
Weight:	6 g

SAFETY CHECK-OUT (US Model)

After correcting the original service problem, perform the following safety check before releasing the set to the customer:
Check the antenna terminals, metal trim, "metallized" knobs, screws, and all other exposed metal parts for AC leakage. Check leakage as described below.

LEAKAGE TEST

The AC leakage from any exposed metal part to earth ground and from all exposed metal parts to any exposed metal part having a return to chassis, must not exceed 0.5 mA (500 microampers). Leakage current can be measured by any one of three methods.

1. A commercial leakage tester, such as the Simpson 229 or RCA WT-540A. Follow the manufacturers' instructions to use these instruments.
2. A battery-operated AC milliammeter. The Data Precision 245 digital multimeter is suitable for this job.
3. Measuring the voltage drop across a resistor by means of a VOM or battery-operated AC voltmeter. The "limit" indication is 0.75 V, so analog meters must have an accurate low-voltage scale. The Simpson 250 and Sanwa SH-63Trd are examples of a passive VOM that is suitable. Nearly all battery operated digital multimeters that have a 2 V AC range are suitable. (See Fig. A)

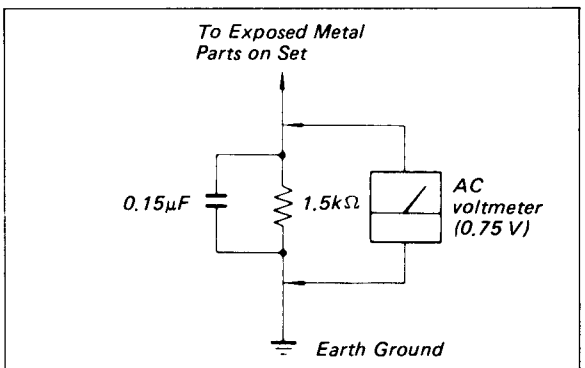
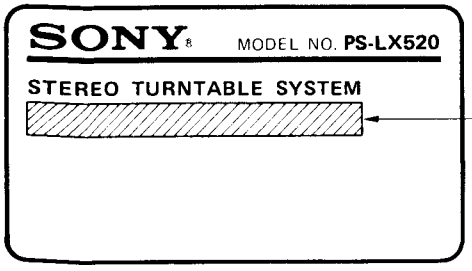


Fig. A. Using an AC voltmeter to check AC leakage.

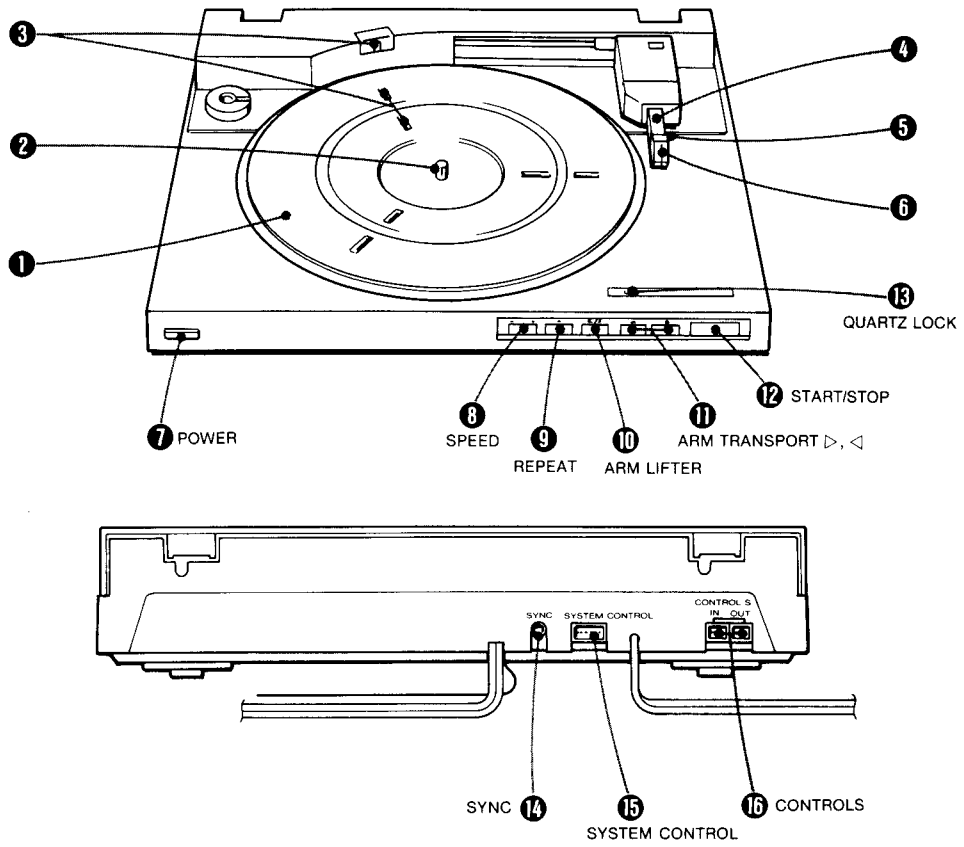
MODEL IDENTIFICATION

– Specification Label –



US, Canadian	:	AC: 120 V ~ 60 Hz 10 W
AEP	:	AC: 220 V ~ 50/60 Hz 10 W
E	:	AC: 110 – 220 V, 220 – 240 V ~ 50/60 Hz 10 W

LOCATION AND FUNCTION OF CONTROLS



Front panel

❶ Rubber mat

❷ Center spindle

❸ Auto-record-size selection holes and lamp

❹ Tonearm

❺ Cartridge locking screw

❻ Cartridge

❼ POWER switch

❽ SPEED selector and indicators
Selects the record speed. When the POWER switch is turned on, the speed is always 33⅓ rpm and the indicator on the right illuminates. When the selector is pressed, 45 rpm is selected and the indicator on the left illuminates.

❾ REPEAT button and indicator
Press this button to repeat play. The indicator illuminates and repeat play continues until this button is pressed to stop it.

❿ ARM LIFTER button
This button lifts and lowers the tonearm.
When the tonearm is on the arm rest position, this button cannot operate.

⓫ ARM TRANSPORT buttons
Press to move the tonearm inwards or outwards.

⓬ START/STOP button
Press this button to start the record playing. To stop during play, press it again.

⓭ QUARTZ LOCK indicator
The indicator illuminates when the turntable rotation is locked to the nominal speed by the quartz lock control system. The indicator goes out when the turntable rotation is out of the nominal speed.

Rear panel

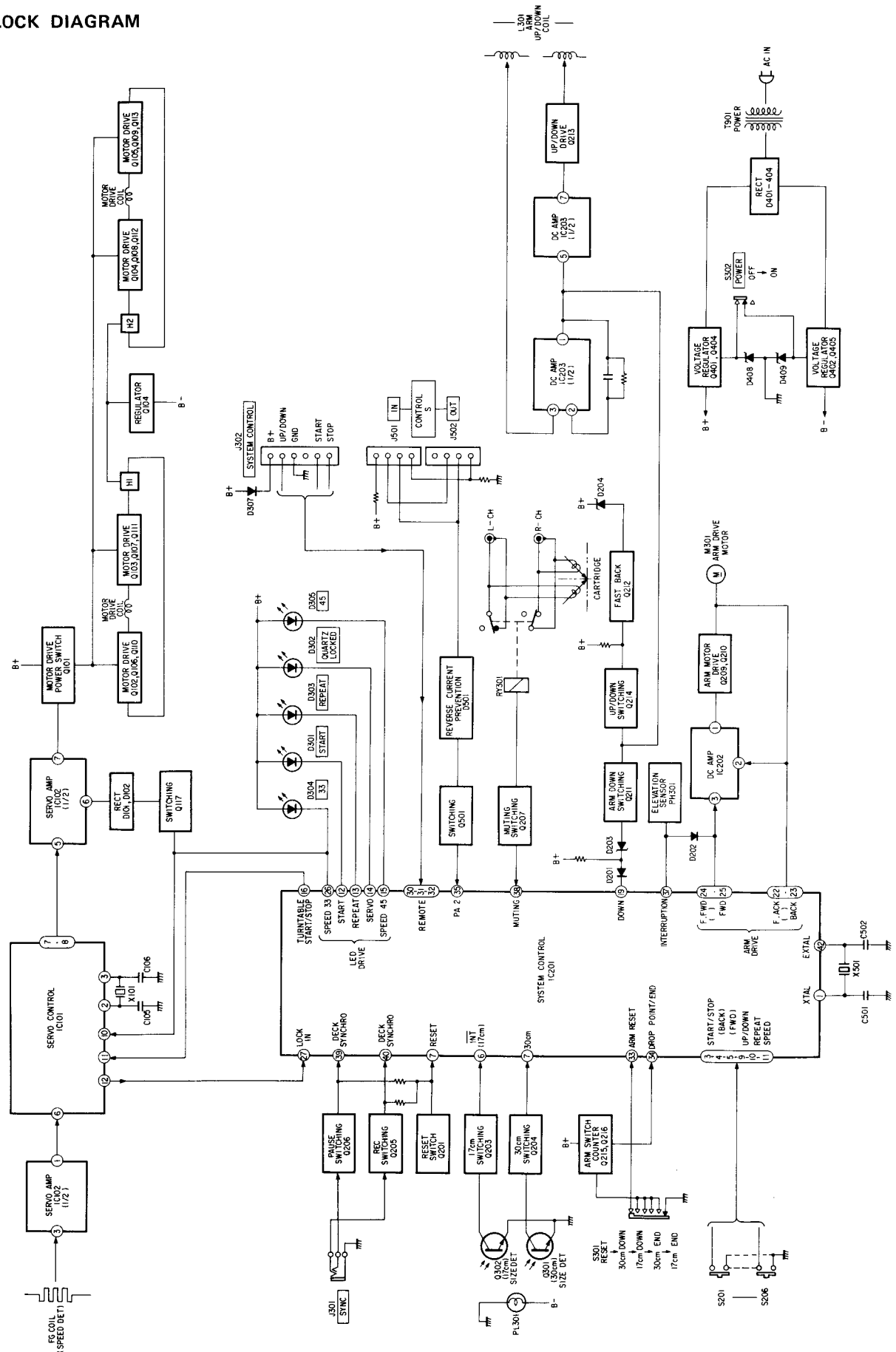
⓮ SYNC connector
Connect a Sony cassette deck equipped with a flat 3-pin synchro remote control connector for synchronized play function.

⓯ SYSTEM CONTROL connector
Connect to the PHONO connector of the RM-44 system remote controller (optional) for remote control operation.
When the RM-44 is connected to this connector, do not connect audio equipment to the CONTROL S connectors. This will cause malfunction of the remote control system.

⓰ CONTROL S connectors (4-pin)
OUT: Connect to the CONTROL S IN or REMOTE IN connector of other Sony audio equipments with the supplied flat 4-pin remote control cord for remote control of the total audio system.
IN: Connect to the CONTROL S OUT or REMOTE OUT connector of an optional Sony system control tuner or receiver for remote control of the total audio system.

SECTION 1
OUTLINE

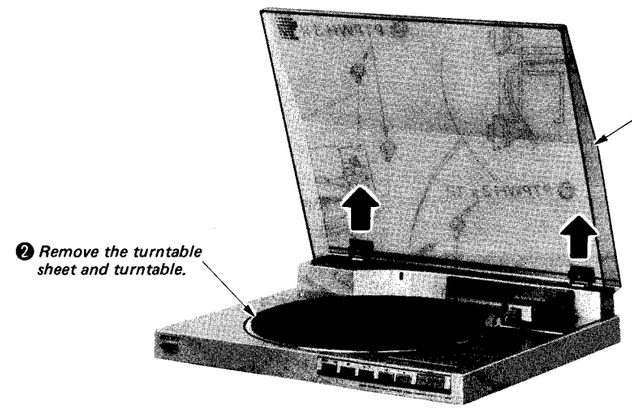
1-1. BLOCK DIAGRAM



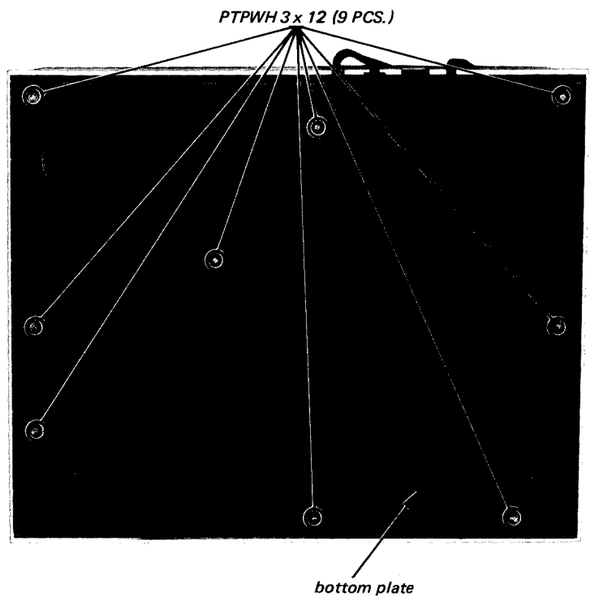
SECTION 2
DISASSEMBLY

2-1. REMOVAL **Note:** Follow the disassembly procedure in the numerical order given.

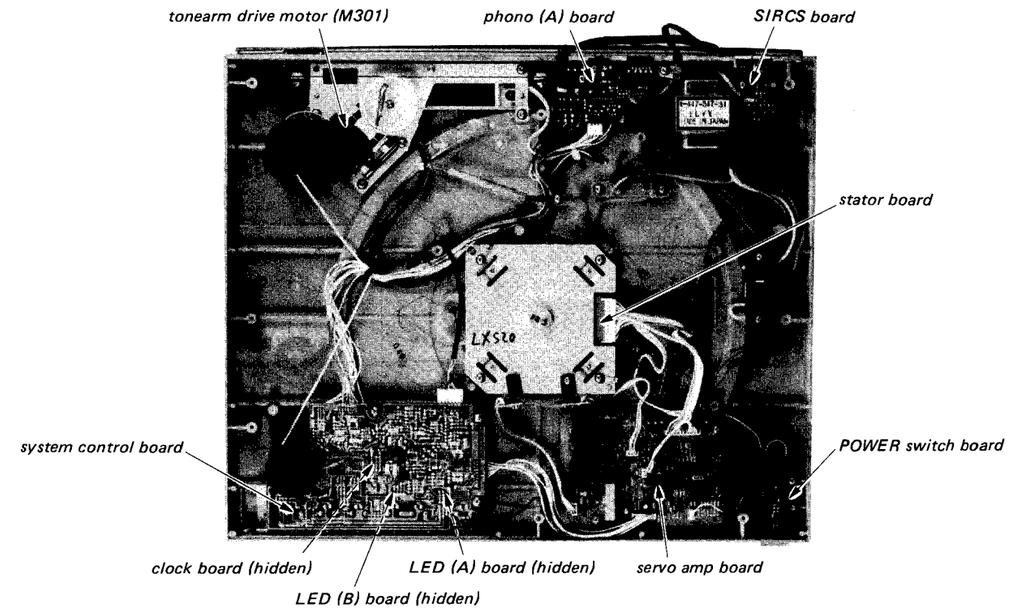
DUST COVER/TURNTABLE



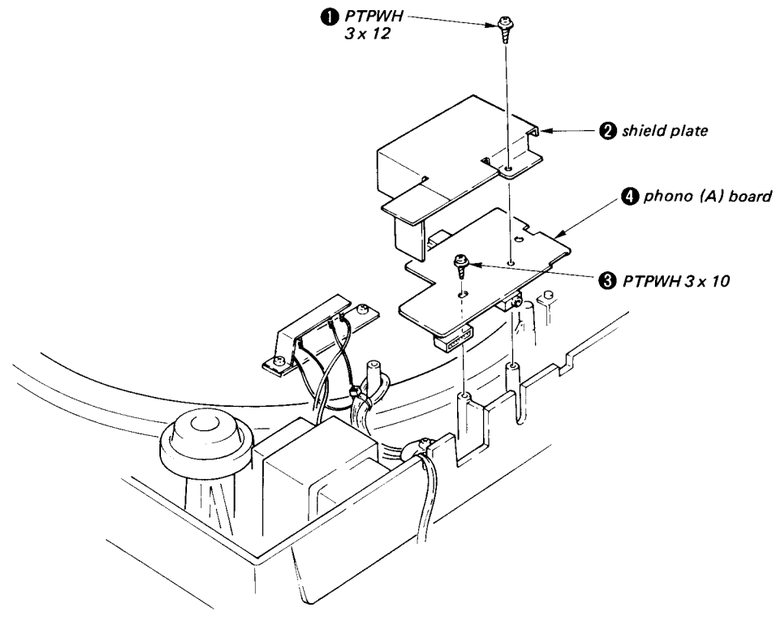
BOTTOM PLATE



— With bottom plate removed —

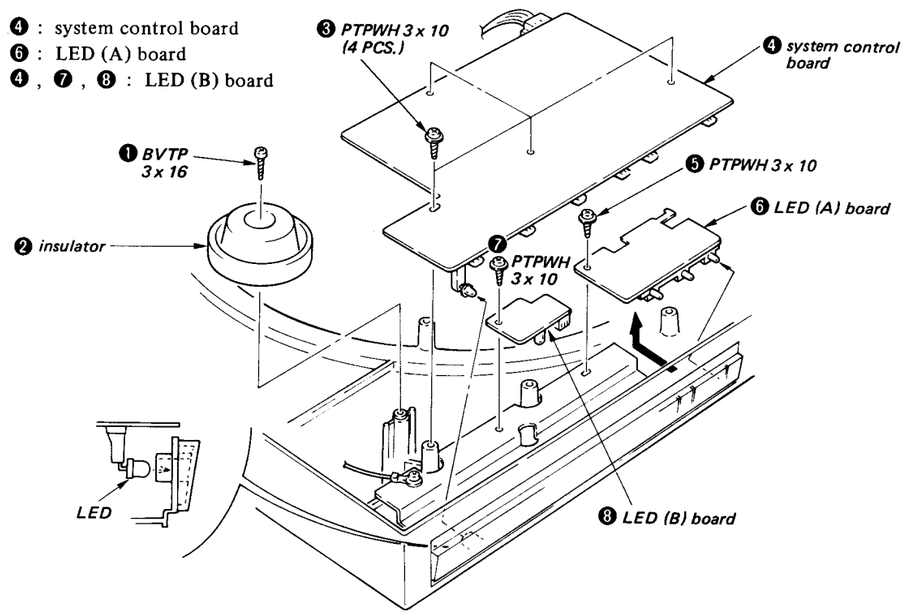


PHONO (A) BOARD

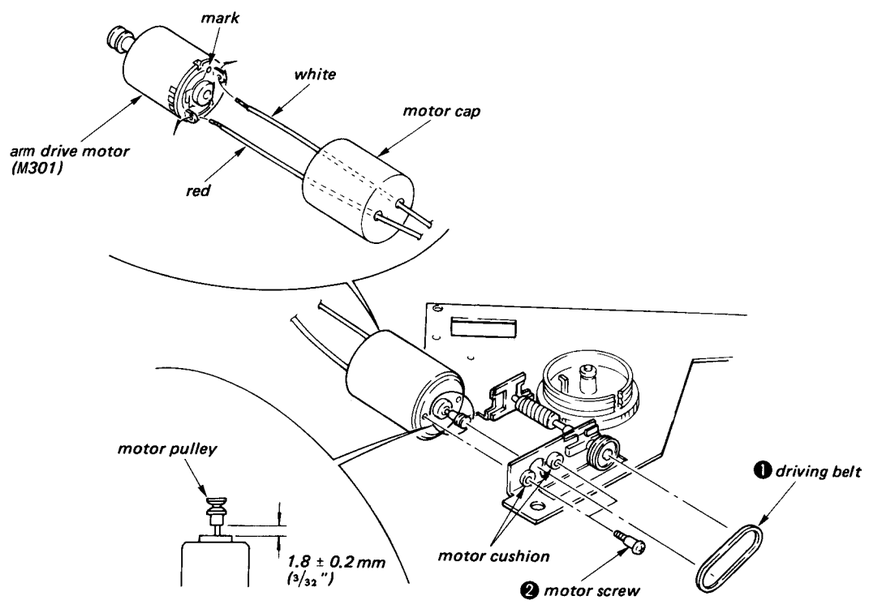


SYSTEM CONTROL/LED (A), (B) BOARDS

❶ – ❹ : system control board
❶ – ❻ : LED (A) board
❶ – ❹ , ❼ , ❽ : LED (B) board

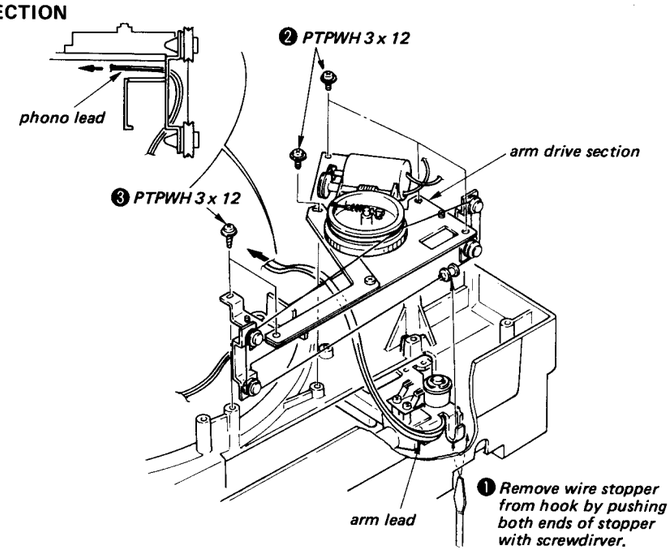


TONEARM DRIVE MOTOR (M301)



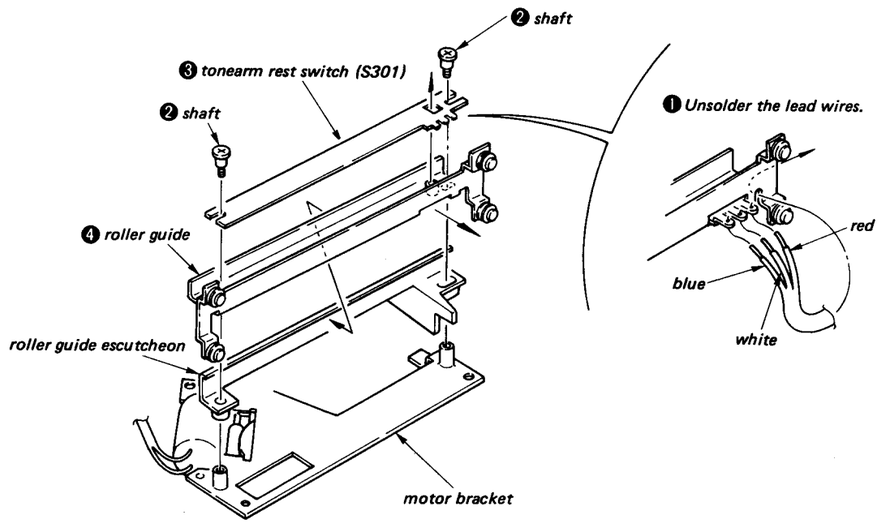
Remove the bottom plate.
(See page 5.)

TONEARM DRIVE SECTION

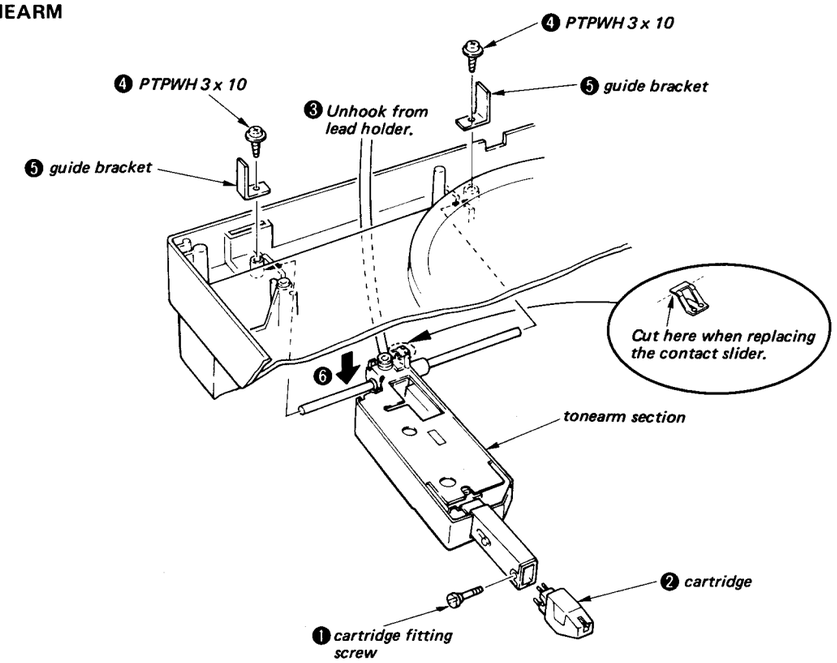

❷ PTPWH 3 x 12
phono lead
arm drive section
❸ PTPWH 3 x 12
arm lead
❶ Remove wire stopper from hook by pushing both ends of stopper with screwdirver.

TONEARM DRIVE CORD STRINGING
(See page 12.)

TONEARM REST SWITCH (S301)/ROLLER GUIDE

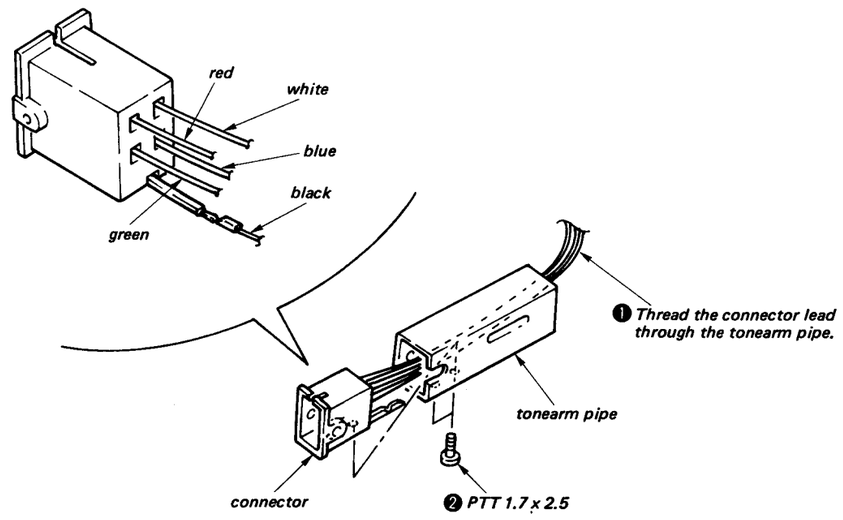


TONEARM

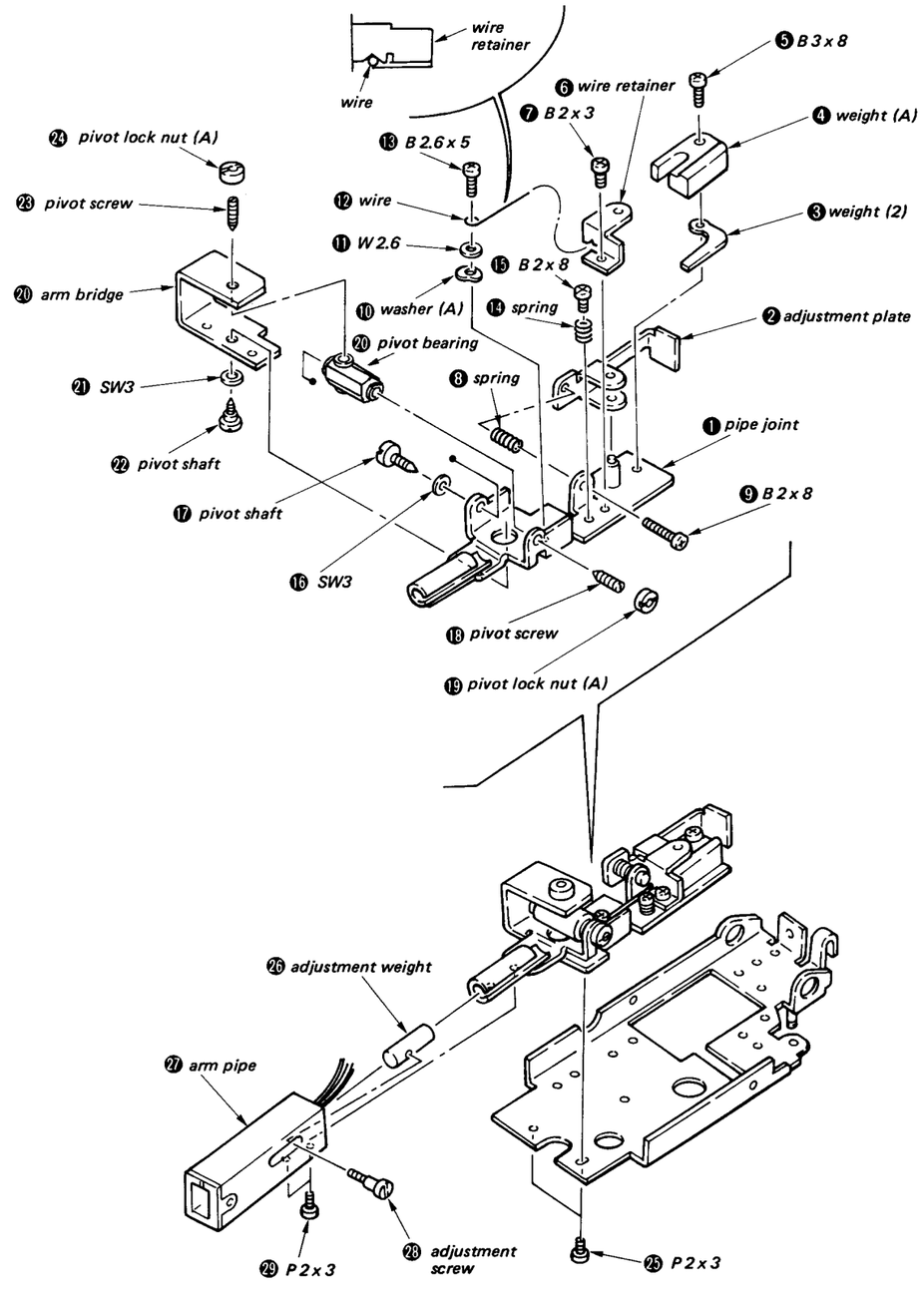


2-2. TONEARM ASSEMBLING

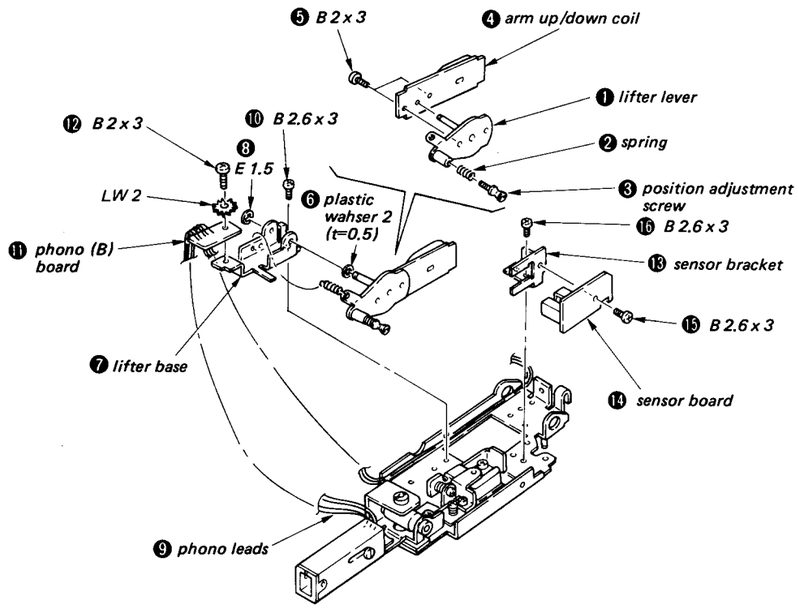
TONEARM ASSEMBLING (1)



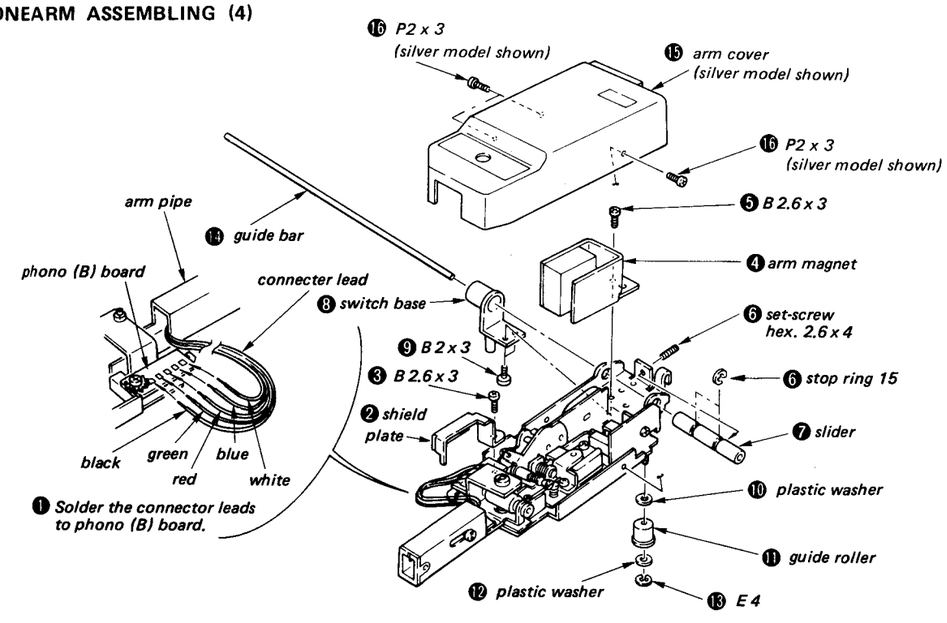
TONEARM ASSEMBLING (2)



TONEARM ASSEMBLING (3)

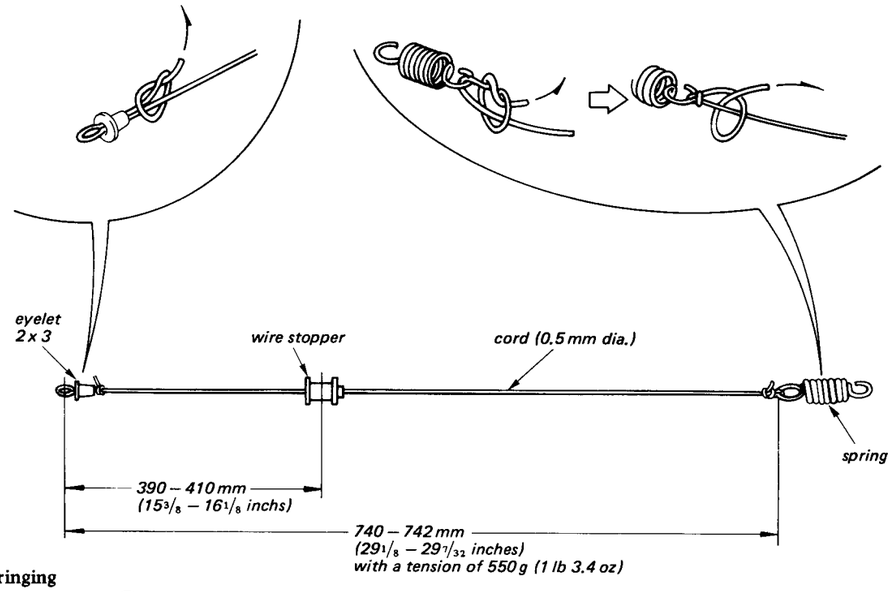


TONEARM ASSEMBLING (4)

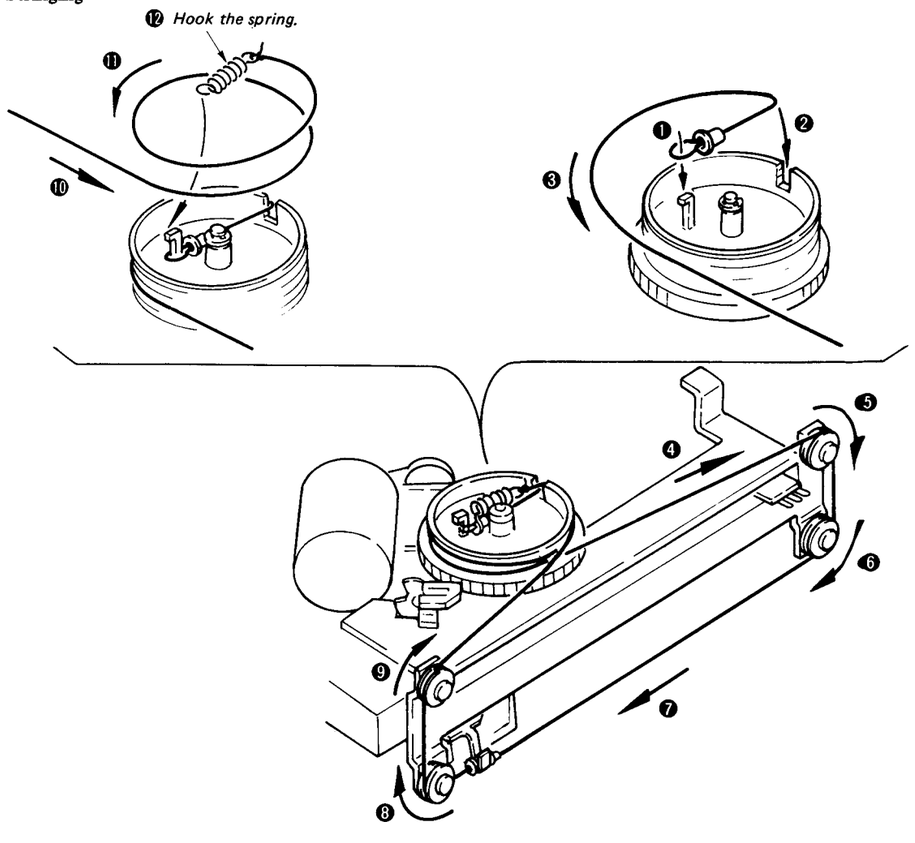


2-3. TONEARM DRIVE CORD STRINGING

(1) Preparation


eyelet 2 x 3
wire stopper
cord (0.5 mm dia.)
spring
390 – 410 mm (15 3/8 – 16 1/8 inches)
740 – 742 mm (29 1/8 – 29 1/32 inches) with a tension of 550 g (1 lb 3.4 oz)

(2) Stringing

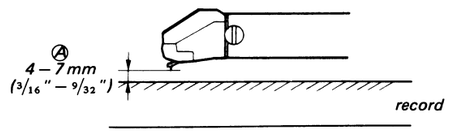


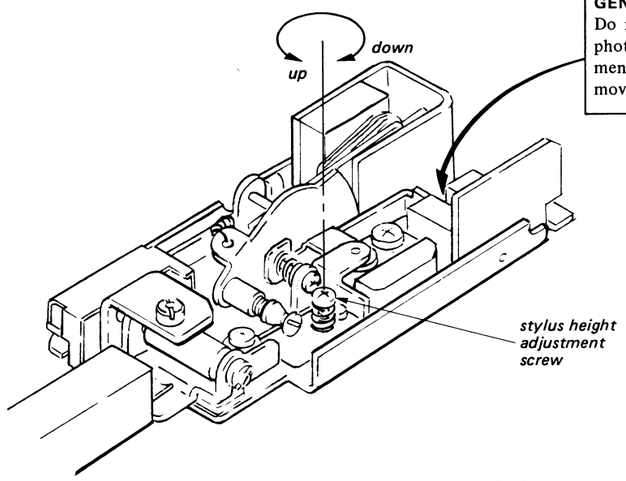
SECTION 3
ADJUSTMENTS

3-1. MECHANICAL ADJUSTMENTS

Stylus Height Adjustment

1. Put a record.
2. Press ARM TRANSPORT button (◀) and move the arm outside the record.
3. Make sure that clearance Ⓐ is 4 – 7 mm ($^3/_{16}$ – $^9/_{32}$ inches). If necessary, adjust the stylus height adjustment screw.

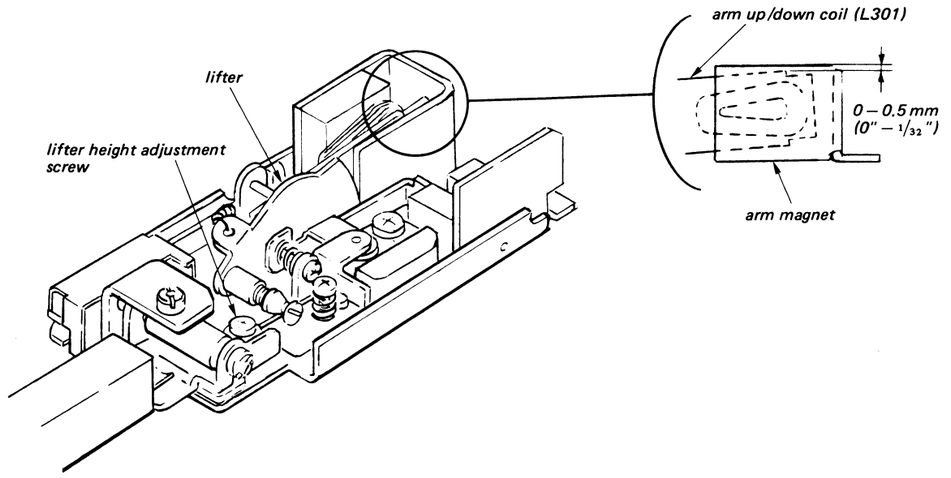




GENERAL NOTE:
Do not let a strong light get in the groove of photo interruptor during mechanical adjustment. Otherwise, misoperation of stoppage or moving may occur to the tonearm base.

Lifter Height Adjustment

Adjust the lifter height adjustment screw so that the arm up/down coil position is 0 – 0.5 mm (0" – $^1/_{32}$") as shown below.



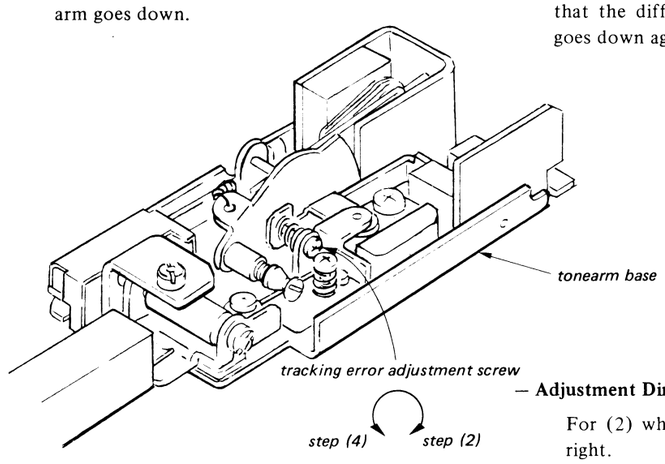
Tracking Error Adjustment

(1) Place a test record (YFSC-16) on the turntable and press the START/STOP button for lead-in.

(2) Adjust with the adjustment screw so that the tonearm base does not move just after the tonearm goes down.

(3) After completing step (2), cause the tonearm to lead in, and then go UP after the tonearm base moves.

(4) Check the count at this time, and then check that the difference in count when the tonearm goes down again is within 5 counts.



– Adjustment Direction –

For (2) when the arm base moves, turn to the right.

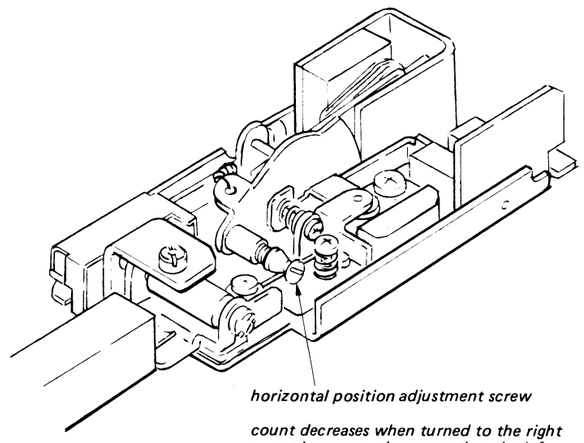
For (4) when the difference in count is too large, turn to the left.

Drop Point (30 cm) Adjustment

(1) Place a test record (YFSC-16) on the turntable and press the START/STOP button for lead-in.

(2) Adjust the horizontal position adjustment screw so that the drop point at this time is within the specification.

Specification: 9 – 14 counts


horizontal position adjustment screw
count decreases when turned to the right
count increases when turned to the left

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(1) Place a test record (YFSC-16) on the turntable and press the START/STOP button for lead-in.

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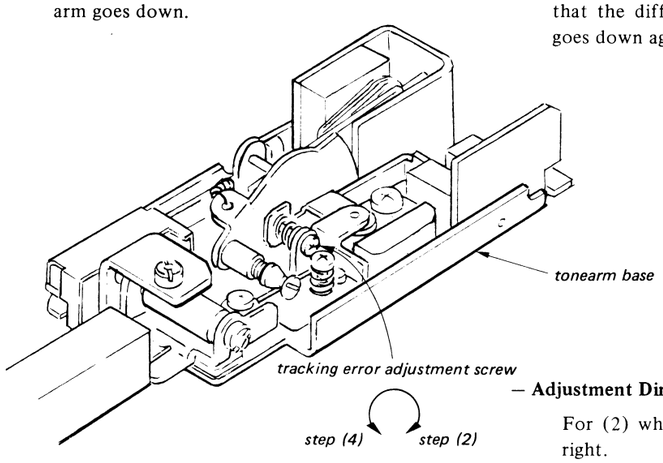

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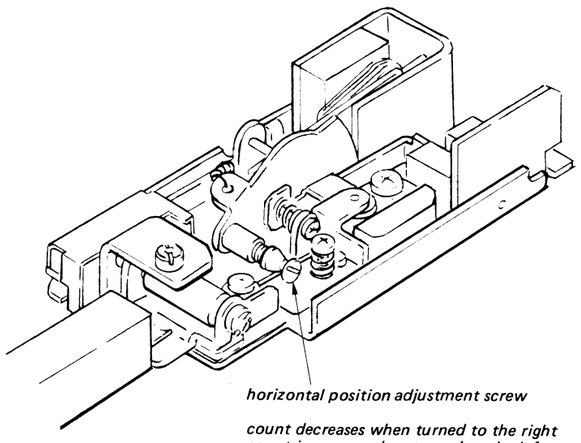
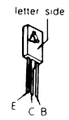
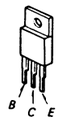

horizontal position adjustment screw
count decreases when turned to the right
count increases when turned to the left

• Semiconductor Lead Layouts

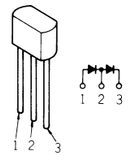
2SB731
2SD414-R
2SD809



2SB941
2SD1266

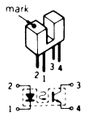


MC931



2SC2603F
DTA114ES
DTA124ES
DTA124XS
DTC124ES
DTC114ES

ON1128



2SD1388

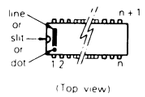
HW-300B

PH101

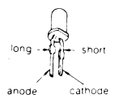
2SB1014

10E2
1SS119
RD6.8JN1
RD7.5EL2

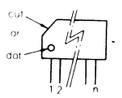
TC9142P
LM6402G-575



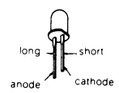
GL-3HD1



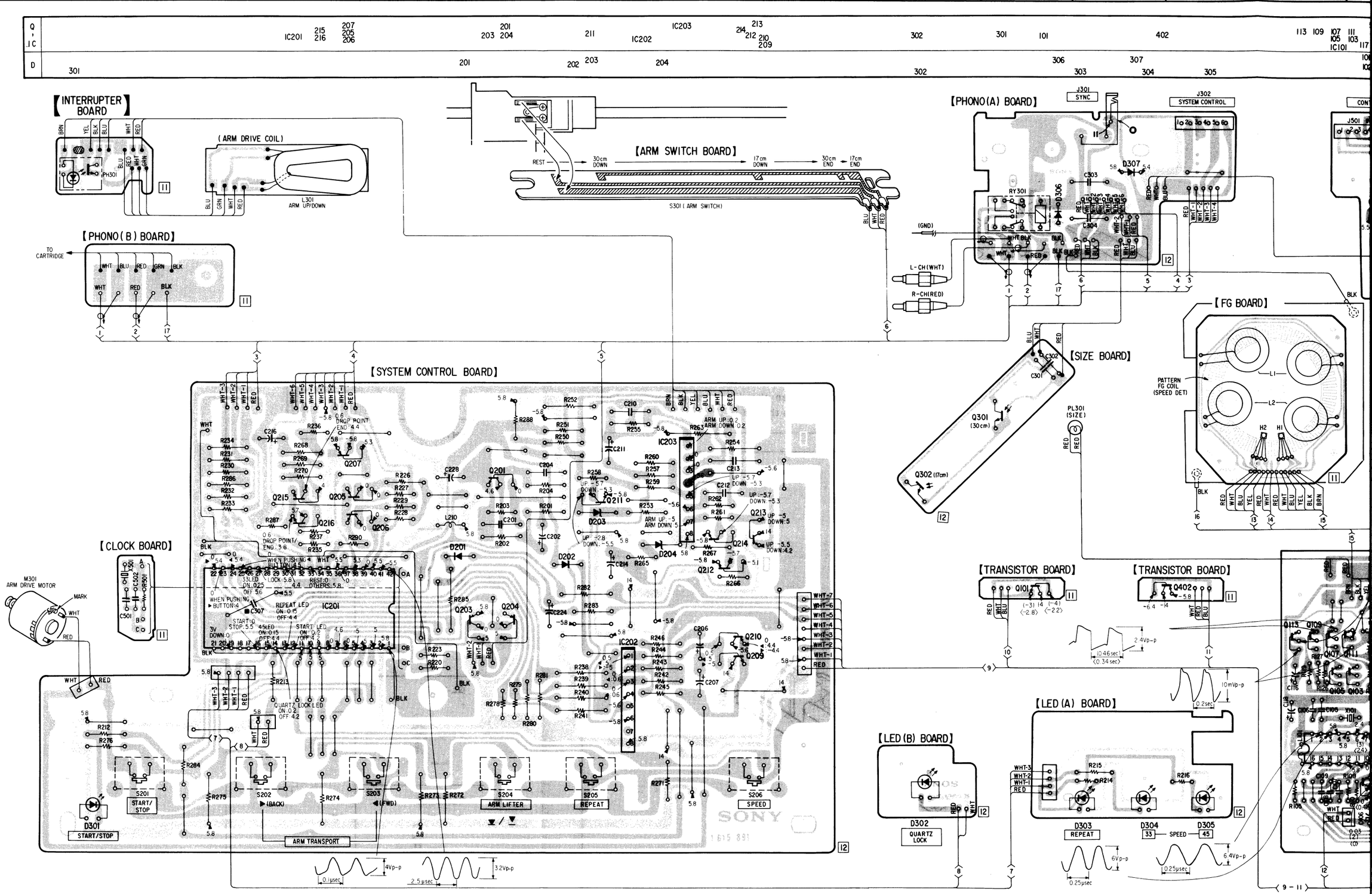
M5218L



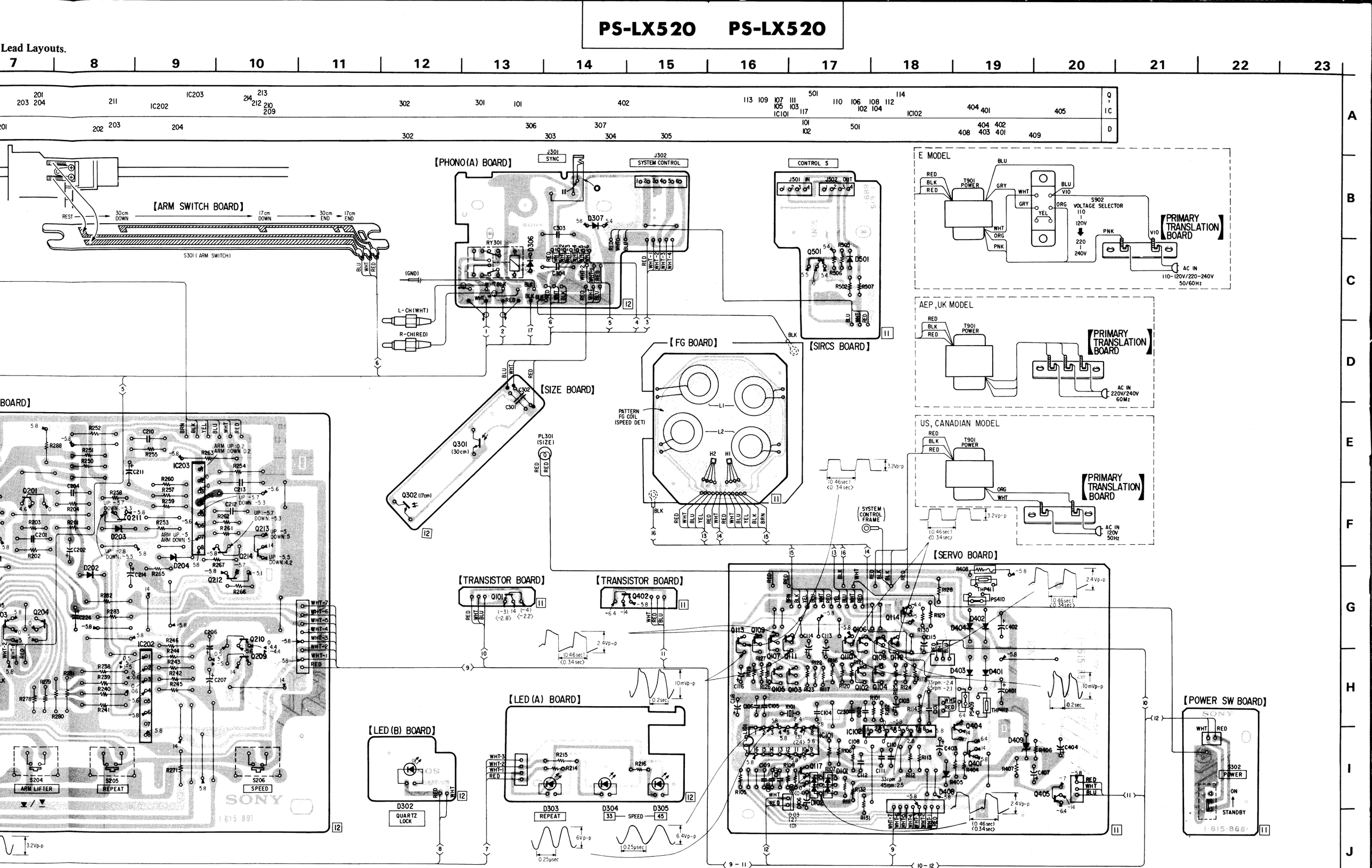
GL-5EG22



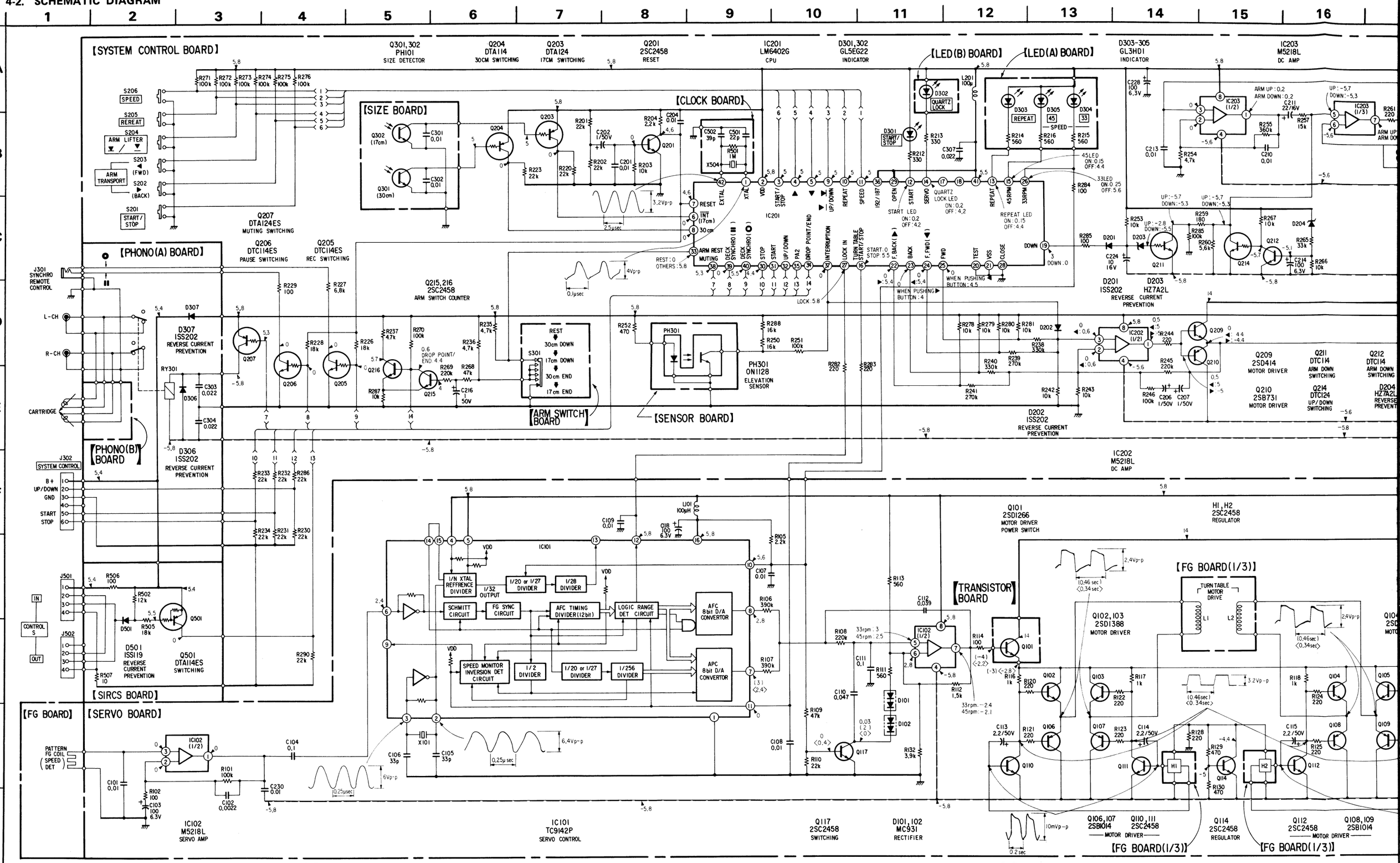
See page 15 for Semiconductor Lead Layouts.

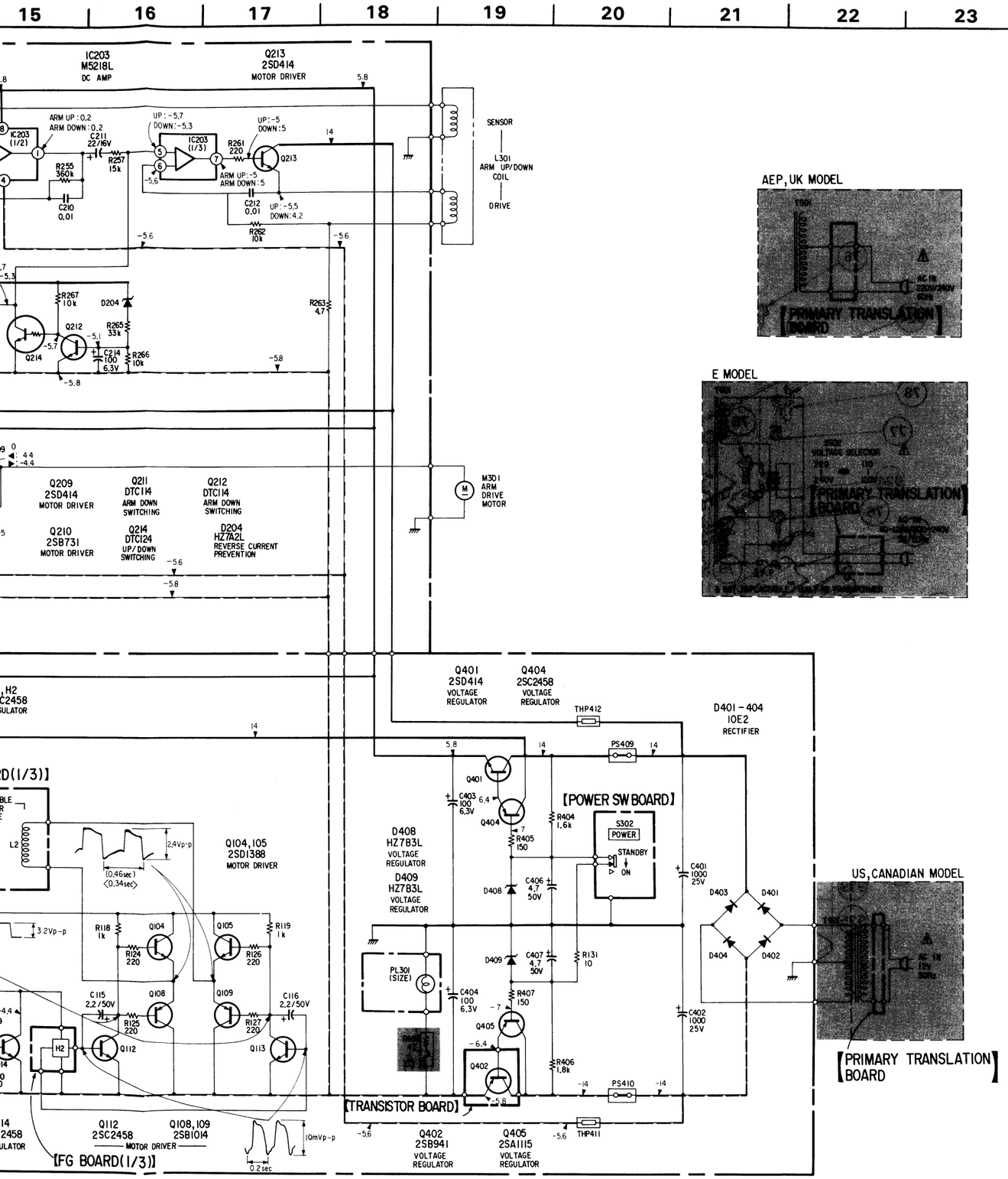


Lead Layouts.



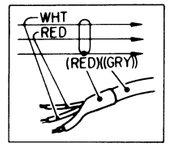
4-2. SCHEMATIC DIAGRAM





Note for MOUNTING DIAGRAM:

- Color code of sleeving over the end of the jacket.



- ○— : parts extracted from the component side.
- ●— : parts extracted from the conductor side.
- ■ : part mounted on the conductor side.
- : B + pattern

Note for SCHEMATIC DIAGRAM:

- All capacitors are in μF unless otherwise noted. pF: μμF 50 WV or less are not indicated except for electrolytics and tantalums.
- All resistors are in Ω and ¼W or less unless otherwise specified.
- : fusible resistor.
- : B+ bus.
- : B– bus.
- : adjustment for repair.
- Voltages are dc with respect to ground unless otherwise noted.
- Readings are taken under no-signal conditions with a VOM (50kΩ/V).
- Voltage variations may be noted due to normal production tolerances.
- Waveforms are taken to ground in no signal mode by using oscilloscope.
  Voltage variations may be noted due to normal production tolerances.
- Switch

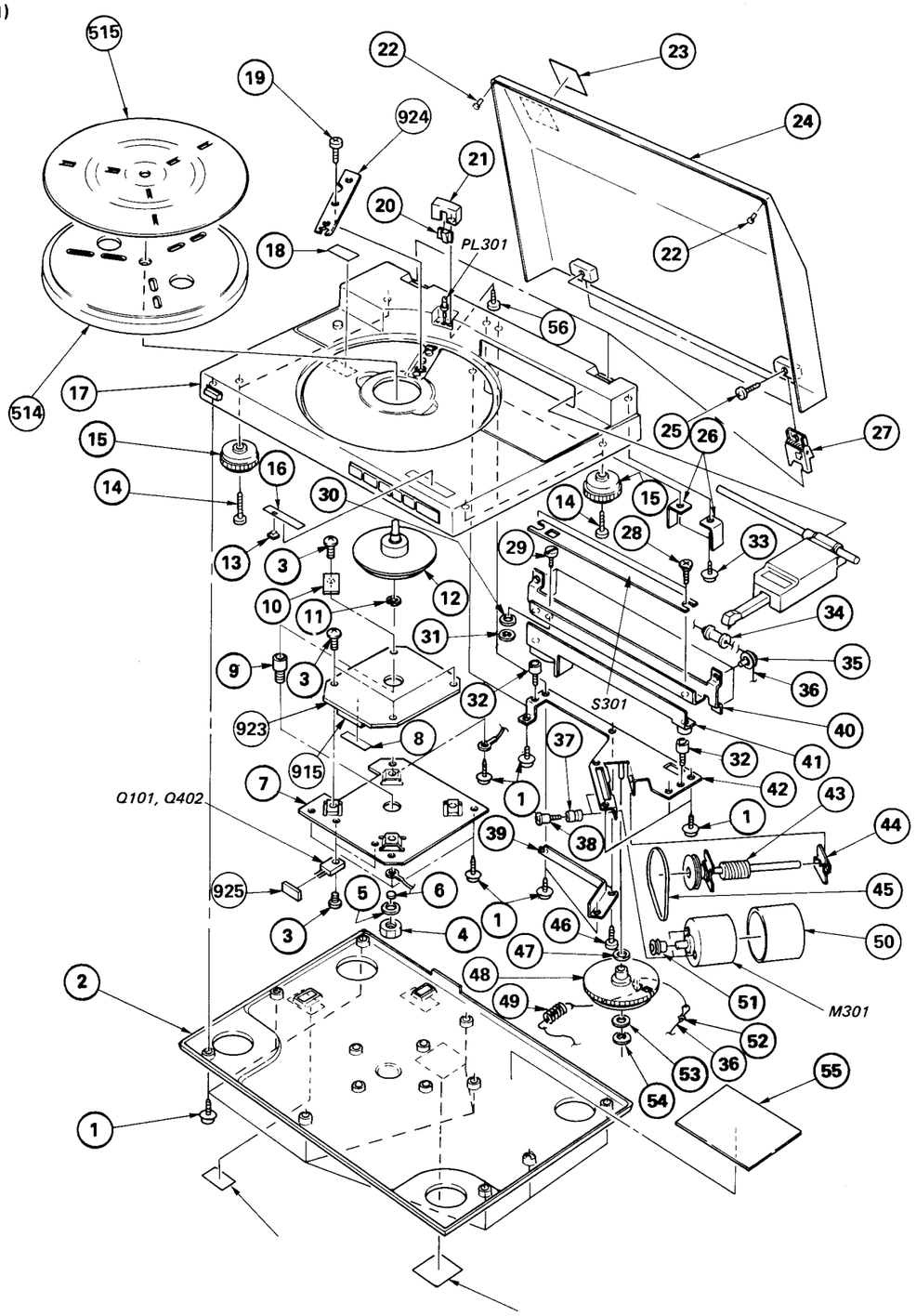
Ref. No.	Switch	Position
S201	START/STOP	———
S202	ARM TRANSPORT (▶)	———
S203	ARM TRANSPORT (◀)	———
S204	ARM LIFTER	———
S205	REPEAT	
S206	SPEED	
S301	ARM SWITCH	
S302	POWER	STAND BY

Note: The components identified by shading and mark ⚠ are critical for safety. Replace only with part number specified.

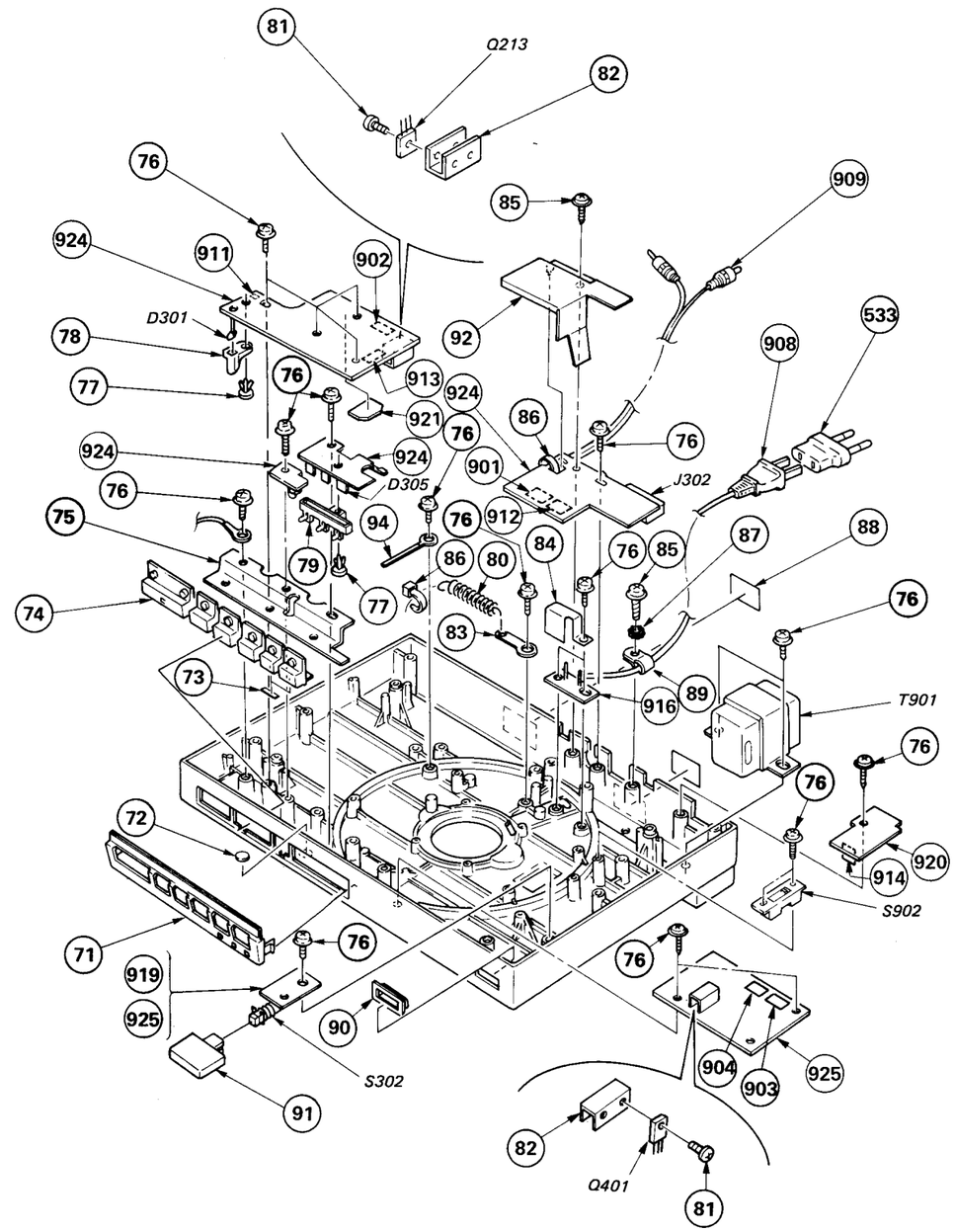
Note: Les composants identifiés par une trame et une marque ⚠ sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

SECTION 5
EXPLODED VIEWS

(1)

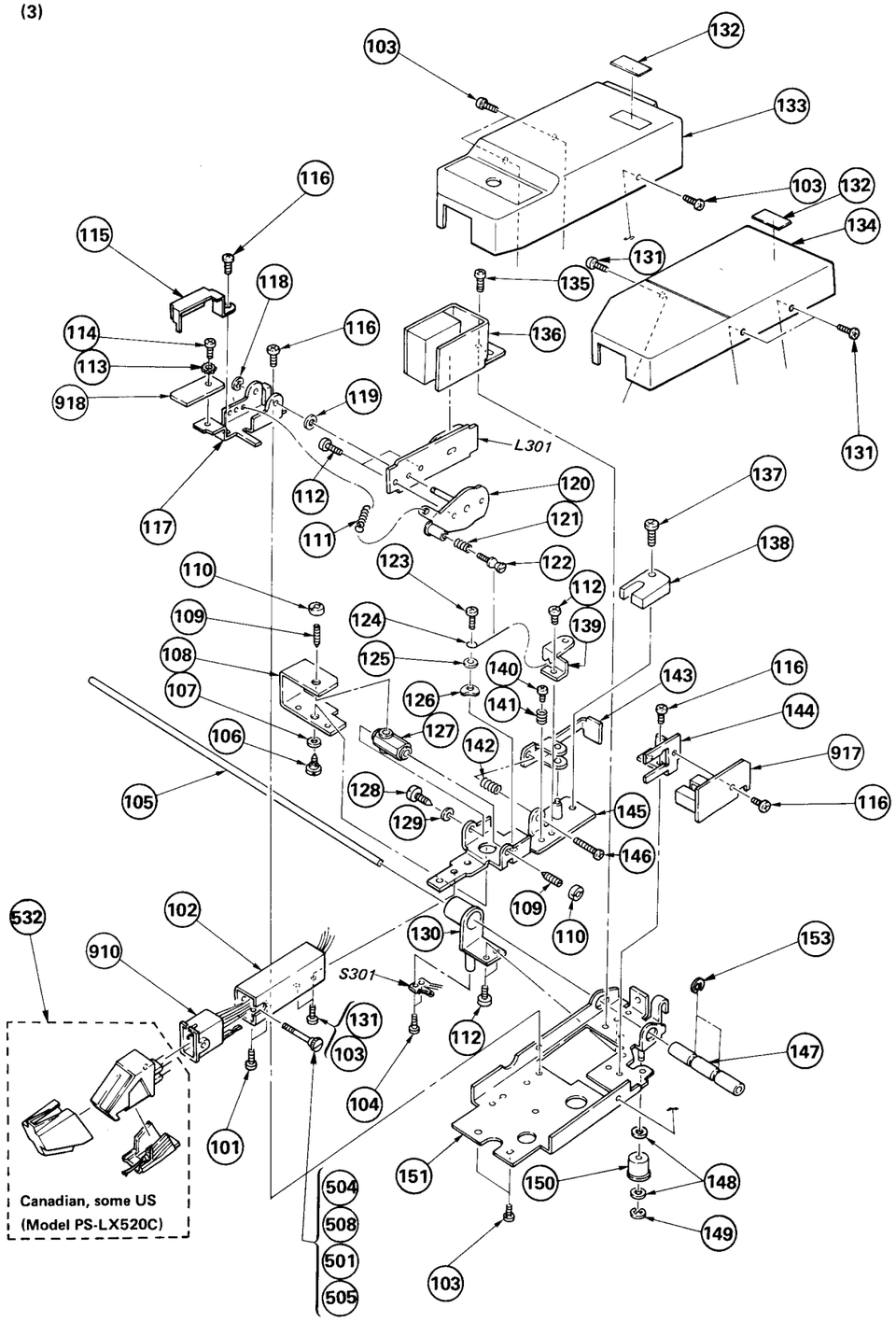


(2)



(3)

(3)



SECTION 6
ELECTRICAL PARTS LIST

NOTE:
- Items marked " ★ " are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- If there are two or more same circuitsin a set such as a stereophonic machine, only typical circuit parts may be indicated and capacitors and resistors in other same circuits may be omitted.

CAPACITORS:
MF:µF, PF:µµF.

RESISTORS
- All resistors are in ohms.
- F : nonflammable

COILS
- MMH : mH, UH : µH

SEMICONDUCTORS
In each case, U : µ, for example:
UA...: µA..., UPA...: µPA..., UPC...: µPC, UPD...: µPD...

The components identified by shading and mark ⚠ are critical for safety. Replace only with part number specified.

Les composants identifiés par une trame et une marque ⚠ sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

No.	Part No.	Description	Remarks
1	3-703-136-00	SCREW, SELF-TAPPING, +PTPWH 3X12, SLIT	
2	*4-887-410-01	(AEP,Canadian)...PLATE, BOTTOM	
	*4-887-410-11	(US).....PLATE, BOTTOM	
	*4-887-410-21	(E).....PLATE, BOTTOM	
3	7-685-871-01	SCREW +BVTT 3X6 (S)	
4	*4-903-330-01	NUT (TMD), BEARING	
5	4-885-728-00	PACKING	
6	4-885-135-00	RETAINER, THRUST	
7	*4-887-472-01	STATOR	
8	3-831-441-XX	CUSHION (25X15X0.3)	
9	*4-887-477-01	BEARING	
10	*4-887-476-01	PLATE, STOPPER	
11	7-624-133-24	STOP RING 7, TYPE-CE	
12	*A-4608-312-A	MOTOR ASSY	
13	*4-903-328-01	WINDOW, LED	
14	7-685-150-14	SCREW +BVTP 3X16 TYPE2 SLIT	
15	X-4885-704-3	INSULATOR ASSY	
16	4-887-445-01	LABEL (B), PANEL	
17	4-887-464-01	(US,Canadian:SILVER)...FRAME	
	4-887-464-31	(AEP,E:BLACK).....FRAME	
	4-887-464-11	(US,Canadian:BLACK)....FRAME	
	4-887-464-21	(AEP,E:SILVER).....FRAME	
	4-887-464-51	(AEP,E:BLACK).....FRAME	
18	*3-701-030-00	LABEL, SERIAL NUMBER	
19	7-685-147-21	SCREW +P 3X10 TYPE2 SLIT	
20	4-879-741-00	WINDOW, LAMP	
21	4-887-412-11	(BLACK)....HOLDER, LAMP	
	4-887-412-21	(SILVER)...HOLDER, LAMP	
22	4-885-183-00	CUSHION (D)	
23	*3-703-705-01	STICKER, SONY SYMBOL (30)	
24	X-4887-402-0	COVER ASSY, DUST	
25	7-682-547-04	SCREW +B 3X6	
26	*4-885-742-00	BRACKET, GUIDE	
27	4-887-404-00	(SILVER)...HINGE	
	4-887-404-11	(BLACK)....HINGE	
28	*3-465-048-00	SHAFT	
29	4-885-748-00	PIN, ADJUSTMENT	
30	4-885-747-00	WASHER (H)	
31	7-624-190-81	STOP RING 2, TYPE-CS	
32	4-885-741-00	SPACER	
33	3-703-137-00	SCREW, TAPPING, +PTPWH 3X10	
34	4-885-744-00	STOPPER, WIRE	
35	X-4856-325-0	PULLEY ASSY	
36	7-633-120-45	STRING, TETRON DIAL (0.5MM)	
37	3-570-118-00	CUSHION, MOTOR	
38	3-570-027-00	SCREW, MOTOR	
39	*4-885-787-00	GUIDE, LEAD WIRE	
40	*4-885-750-00	GUIDE, ROLLER	
41	4-885-777-00	(SILVER)...ESCUTCHEON, ROLLER GUIDE	
	4-885-777-11	(BLACK)....ESCUTCHEON, ROLLER GUIDE	
42	X-4885-702-0	BRACKET ASSY, MOTOR	
43	X-4885-710-0	WORM ASSY	
44	4-885-703-00	GUIDE, WORM SHAFT	
45	4-885-735-00	BELT, DRIVING	
46	7-682-545-04	SCREW +B 3X4	
47	3-701-441-21	WASHER	
48	4-885-749-00	WHEEL, WORM	
49	4-885-767-00	SPRING, TENSION	
50	4-885-775-00	CAP, MOTOR	
51	4-885-704-03	PULLEY, MOTOR	
52	7-623-616-01	EYELET, 2X3	
53	3-701-441-01	WASHER	
54	7-624-106-04	STOP RING 3.0, TYPE -E	
55	4-887-422-11	LABEL, ARM ASSY	
56	7-685-135-14	SCREW +P 2.6X10 TYPE2 NON-SLIT	
71	X-4887-403-3	(SILVER)...PANEL ASSY, SUB	
	X-4887-403-4	(BLACK)....PANEL ASSY, SUB	
72	4-887-429-00	SPACER	
73	3-831-441-XX	CUSHION (25X15X0.3)	
74	A-4630-148-	BUTTON ASSY, CONTROL	
75	*4-887-406-00	RETAINER, BUTTON, CONTROL	
76	3-703-137-00	SCREW, TAPPING, +PTPWH 3X10	
77	3-531-576-31	RIVET (DIA. 3), NYLON	
78	*4-887-415-00	HOLDER (B), LED	
79	*4-887-414-00	HOLDER (A), LED	
80	4-885-789-00	SPRING, TENSION	
81	7-682-547-09	SCREW +B 3X6	
82	*4-885-562-11	HEAT SINK	
83	3-460-077-00	CLAMP, WIRE	
84	*4-885-798-00	COVER, POWER	
85	3-703-136-00	SCREW, SELF-TAPPING, +PTPWH 3X12, SLIT	
86	*3-701-748-00	CLAMP	
87	7-623-422-07	LW 3, TYPE B	
88	*4-887-470-01	(US,Canadian)...LABEL, MODEL NUMBER	
	*4-887-468-01	(AEP).....LABEL, MODEL NUMBER	
	*4-887-469-01	(E).....LABEL, MODEL NUMBER	
89	*3-001-707-01	HOLDER, WIRE	
90	4-875-501-00	GUIDE, POWER KNOB	
91	4-885-734-00	(SILVER)...BUTTON, POWER	
	4-885-734-12	(BLACK)....BUTTON, POWER	
92	*4-887-426-00	PLATE, SHIELD	
93	*3-701-748-00	CLAMP	
94	3-703-150-11	CLAMP	
101	7-685-799-04	SCREW +PTT 1.7X2.5	
102	4-908-114-01	(SILVER)...PIPE, ARM	
	4-908-114-11	(BLACK)....PIPE, ARM	
103	7-627-553-37	(SILVER)...SCREW, PRECISION +P 2X3	
104	4-887-321-01	SCREW (B1.7X4) (G), SELF-TAPPING	
105	4-885-709-00	BAR, GUIDE	
106	4-887-449-01	SHAFT, PIVOT	
107	7-688-003-01	W 3, SMALL	
108	4-887-454-01	BRIDGE, ARM	
109	2-203-518-61	SCREW, PIVOT	
110	2-203-519-21	(BLACK)....NUT (A), LOCK, PIVOT	
	2-203-519-01	(SILVER)...NUT (A), LOCK, PIVOT	
111	4-887-439-01	SPRING, TENSION	
112	7-621-772-00	SCREW +B 2X3	
113	7-623-420-07	LW 2, TYPE B	
114	7-621-772-08	SCREW +B 2X3	
115	*4-887-446-01	PLATE, SHIELD	
116	7-621-775-00	SCREW +B 2.6X3	
117	*4-887-437-01	BASE, LIFTER	
118	7-624-102-04	STOP RING 1.5, TYPE -E	
119	3-701-437-21	WASHER	
120	*X-4887-409-1	LEVER ASSY, LIFTER	
121	4-885-764-02	SPRING, COMPRESSION	
122	4-885-706-04	SCREW, ADJUSTMENT, POSITION	
123	7-621-773-95	SCREW +B 2.6X6	
124	4-885-737-00	WIRE	
125	7-688-002-01	W 2.6, SMALL	
126	4-887-463-01	WASHER (B)	

No.	Part No.	Description	Remarks
127	X-4908-101-1	BEARING ASSY	
128	4-877-816-00	SHAFT, PIVOT	
129	7-623-208-22	SW 3, TYPE 2	
130	4-887-442-01	BASE, SWITCH	
131	7-627-553-38	(BLACK)....SCREW, PRECISION +P 2X3	
132	*4-885-792-00	PLUG IN SEAL (A)	
133	4-887-456-21	(SILVER)...COVER, ARM	
134	4-908-123-01	(BLACK)....COVER, ARM	
135	7-628-253-95	SCREW +PS 2.6X4	
136	X-4887-415-1	MAGNET ASSY, ARM	
137	7-682-548-09	SCREW +B 3X8	
138	4-908-117-01	WEIGHT (C)	
139	*4-887-444-01	RETAINER, WIRE	
140	7-621-772-30	SCREW +B 2X6	
141	4-885-766-00	SPRING, COMPRESSION	
142	4-887-461-01	SPRING, COMPRESSION	
143	*4-887-462-01	PLATE, ADJUSTMENT	
144	*4-887-440-01	BRACKET, SENSOR	
145	*X-4887-410-1	JOINT ASSY PIPE	
146	7-621-772-40	SCREW +B 2X8	
147	*4-887-465-01	SLIDER (B)	
148	3-701-443-11	WASHER	
149	7-624-108-04	STOP RING 4.0, TYPE -E	
150	4-887-443-01	ROLLER, GUIDE	
151	*X-4887-412-1	BASE ASSY, ARM	
153	7-624-133-44	STOP RING 9, TYPE-CE	

ELECTRICAL PARTS

Ref.No.	Part No.	Description
901	*1-508-878-00	BASE POST
902	*1-508-880-00	BASE POST, MCD CONNECTOR 6P
903	*1-535-115-00	TERMINAL
904	*1-535-116-00	TERMINAL
908	⚠1-551-628-00	(US).....CORD, POWER
	⚠1-551-964-00	(Canadian)...CORD, POWER
	⚠1-551-427-11	(AEP)...CORD, POWER; EURO PLUG
	⚠1-551-188-XX	(E).....CORD, POWER
909	1-551-294-34	(Canadian, AEP, E)... CORD, OUTPUT
909	1-551-294-41	(US)... CORD, OUTPUT
910	1-556-552-00	CONNECTOR (PLUG IN TYPE)
911	*1-560-200-00	BASE POST, MCD CONNECTOR 2P
912	*1-564-496-11	PIN, CONNECTOR 3P
913	*1-564-501-11	PIN, CONNECTOR 8P
914	*1-564-518-11	PLUG, CONNECTOR 3P
915	*1-564-527-11	PLUG, CONNECTOR 12P
916	*1-608-536-00	PC BOARD, PRIMARY TRANSLATION
917	*1-612-356-11	PC BOARD, SENSOR
918	*1-612-357-21	PC BOARD, PHONO (B)
919	*1-615-888-11	PC BOARD, POWER SWITCH
920	*1-615-889-11	PC BOARD, SIRCS
921	*1-615-890-11	PC BOARD, CLOCK
922	*1-615-892-11	PC BOARD, SIZE
923	A-4644-247-A	PC BOARD ASSY, STATOR
924	*A-4644-249-A	MOUNTED PCB, SYSTEM CONTROL (INCLUDING LED(A),LED(B),PHONO(A) AND SIZE BOARDS)
925	*A-4644-252-A	MOUNTED PCB, SERVO (INCLUDING POWER SWITCH, SIRCS,TRANSISTOR(A) AND TRANSISTOR(B)BOARDS)

C101	1-162-306-31	CERAMIC	0.01MF	30%	16V
C102	1-162-302-31	CERAMIC	0.0022MF	30%	16V
C103	1-123-661-00	ELECT	100MF	20%	6.3V
C104	1-136-165-00	FILM	0.1MF	5%	50V
C105	1-162-211-31	CERAMIC	33PF	5%	50V
C106	1-162-211-31	CERAMIC	33PF	5%	50V
C107	1-162-306-31	CERAMIC	0.01MF	30%	16V
C108	1-162-306-31	CERAMIC	0.01MF	30%	16V
C109	1-162-306-31	CERAMIC	0.01MF	30%	16V
C110	1-136-161-00	FILM	0.047MF	5%	50V
C111	1-136-165-00	FILM	0.1MF	5%	50V
C112	1-136-160-00	FILM	0.039MF	5%	50V
C113	1-123-612-00	ELECT	2.2MF	20%	50V
C114	1-123-612-00	ELECT	2.2MF	20%	50V
C115	1-123-612-00	ELECT	2.2MF	20%	50V
C116	1-123-612-00	ELECT	2.2MF	20%	50V
C118	1-123-661-00	ELECT	100MF	20%	6.3V
C201	1-162-306-31	CERAMIC	0.01MF	30%	16V

The components identified by shading and mark ⚠ are critical for safety. Replace only with part number specified.

Les composants identifiés par une trame et une marque ⚠ sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

ELECTRICAL PARTS

Ref.No.	Part No.	Description			
C202	1-123-611-00	ELECT	1MF	20%	50V
C204	1-162-306-31	CERAMIC	0.01MF	30%	16V
C206	1-123-611-00	ELECT	1MF	20%	50V
C207	1-123-611-00	ELECT	1MF	20%	50V
C210	1-162-306-31	CERAMIC	0.01MF	30%	16V
C211	1-123-622-00	ELECT	22MF	20%	16V
C212	1-162-306-31	CERAMIC	0.01MF	30%	16V
C213	1-162-306-31	CERAMIC	0.01MF	30%	16V
C214	1-123-661-00	ELECT	100MF	20%	6.3V
C216	1-123-611-00	ELECT	1MF	20%	50V
C224	1-123-617-00	ELECT	10MF	20%	16V
C228	1-123-661-00	ELECT	100MF	20%	6.3V
C230	1-162-306-31	CERAMIC	0.01MF	30%	16V
C301	1-162-113-00	CERAMIC	0.01MF	30%	16V
C302	1-162-113-00	CERAMIC	0.01MF	30%	16V
C303	1-161-494-00	CERAMIC	0.022MF	30%	25V
C304	1-161-494-00	CERAMIC	0.022MF	30%	25V
C307	1-161-494-00	CERAMIC	0.022MF	30%	25V
C401	1-123-337-00	ELECT	1000MF	20%	25V
C402	1-123-337-00	ELECT	1000MF	20%	25V
C403	1-123-661-00	ELECT	100MF	20%	6.3V
C404	1-123-661-00	ELECT	100MF	20%	6.3V
C406	1-123-619-00	ELECT	4.7MF	20%	50V
C407	1-123-619-00	ELECT	4.7MF	20%	50V
C501	1-162-207-31	CERAMIC	22PF	5%	50V
C502	1-162-213-31	CERAMIC	39PF	5%	50V
D101	8-719-000-12	DIODE MC931			
D102	8-719-000-12	DIODE MC931			
D201	8-719-911-19	DIODE 1SS119			
D202	8-719-911-19	DIODE 1SS119			
D203	8-719-101-63	DIODE RD6.8E-L1			
D204	8-719-101-63	DIODE RD6.8E-L1			
D301	8-719-907-36	DIODE GL-5EG22			
D302	8-719-907-36	DIODE GL-5EG22			
D303	8-719-904-31	DIODE GL-3HD1			
D304	8-719-904-31	DIODE GL-3HD1			
D305	8-719-904-31	DIODE GL-3HD1			
D306	8-719-911-19	DIODE 1SS119			
D307	8-719-911-19	DIODE 1SS119			
D401	8-719-200-02	DIODE 10E-2			
D402	8-719-200-02	DIODE 10E-2			
D403	8-719-200-02	DIODE 10E-2			
D404	8-719-200-02	DIODE 10E-2			
D408	8-719-101-67	DIODE RD7.5E-L2			
D409	8-719-101-67	DIODE RD7.5E-L2			
D501	8-719-911-19	DIODE 1SS119			
H101	8-719-920-37	ELEMENT, HALL HW-300B			
H102	8-719-920-37	ELEMENT, HALL HW-300B			
IC101	8-759-201-58	IC TC9142P			

ELECTRICAL PARTS

Ref.No.	Part No.	Description
IC102	8-759-600-02	IC M5218L
IC201	8-759-802-00	IC LM6402G-575
IC202	8-759-600-02	IC M5218L
IC203	8-759-600-02	IC M5218L
J301	1-507-813-00	JACK (SYNC)
J302	*1-560-317-00	CONNECTOR PIN 6P (SYSTEM CONTROL)
J501	*1-564-980-11	PIN, CONNECTOR 4P (CONTROL IN)
J502	*1-564-980-11	PIN, CONNECTOR 4P (CONTROL OUT)
L101	1-410-033-11	MICRO INDUCTOR 100UH
L201	1-410-033-11	MICRO INDUCTOR 100UH
L301	1-422-162-11	COIL
M301	1-541-218-00	MOTOR
PH301	8-719-411-28	ON1128
PL301	1-518-169-XX	LAMP, PILOT
PS409	1-532-605-00	LINK, IC
PS410	1-532-605-00	LINK, IC
Q101	8-729-400-81	TRANSISTOR 2SD1266-Q
Q102	8-729-802-34	TRANSISTOR 2SD1388
Q103	8-729-802-34	TRANSISTOR 2SD1388
Q104	8-729-802-34	TRANSISTOR 2SD1388
Q105	8-729-802-34	TRANSISTOR 2SD1388
Q106	8-729-802-22	TRANSISTOR 2SB1014
Q107	8-729-802-22	TRANSISTOR 2SB1014
Q108	8-729-802-22	TRANSISTOR 2SB1014
Q109	8-729-802-22	TRANSISTOR 2SB1014
Q110	8-729-606-33	TRANSISTOR 2SC2603F
Q111	8-729-606-33	TRANSISTOR 2SC2603F
Q112	8-729-606-33	TRANSISTOR 2SC2603F
Q113	8-729-606-33	TRANSISTOR 2SC2603F
Q114	8-729-606-33	TRANSISTOR 2SC2603F
Q117	8-729-606-33	TRANSISTOR 2SC2603F
Q201	8-729-606-33	TRANSISTOR 2SC2603F
Q203	8-729-900-67	TRANSISTOR DTA124XS
Q204	8-729-900-61	TRANSISTOR DTA114ES
Q205	8-729-900-80	TRANSISTOR DTC114ES
Q206	8-729-900-80	TRANSISTOR DTC114ES
Q207	8-729-900-63	TRANSISTOR DTA124ES
Q209	8-729-141-42	TRANSISTOR 2SD414-R
Q210	8-729-173-13	TRANSISTOR 2SB731
Q211	8-729-900-80	TRANSISTOR DTC114ES
Q212	8-729-606-33	TRANSISTOR 2SC2603F
Q213	8-729-141-42	TRANSISTOR 2SD414-R
Q214	8-729-900-36	TRANSISTOR DTC124ES
Q215	8-729-606-33	TRANSISTOR 2SC2603F
Q216	8-729-606-33	TRANSISTOR 2SC2603F
Q301	8-729-101-01	TRANSISTOR PH101
Q302	8-729-101-01	TRANSISTOR PH101
Q401	8-729-141-42	TRANSISTOR 2SD414-R
Q402	8-729-400-11	TRANSISTOR 2SB941-Q

ELECTRICAL PARTS

Ref.No.	Part No.	Description				
Q404	8-729-606-33	TRANSISTOR 2SC2603F				
Q405	8-729-117-54	TRANSISTOR 2SA1175				
Q501	8-729-900-61	TRANSISTOR DTA114ES				
R101	1-247-879-00	CARBON	100K	5%	1/6W	
R102	1-247-807-00	CARBON	100	5%	1/6W	
R105	1-249-421-11	CARBON	2.2K	5%	1/6W	
R106	1-247-893-00	CARBON	390K	5%	1/6W	
R107	1-247-893-00	CARBON	390K	5%	1/6W	
R108	1-247-887-00	CARBON	220K	5%	1/6W	
R109	1-247-871-00	CARBON	47K	5%	1/6W	
R110	1-247-863-00	CARBON	22K	5%	1/6W	
R111	1-247-825-00	CARBON	560	5%	1/6W	
R112	1-247-835-00	CARBON	1.5K	5%	1/6W	
R113	1-247-825-00	CARBON	560	5%	1/6W	
R114	1-247-807-00	CARBON	100	5%	1/6W	
R116	1-247-831-00	CARBON	1K	5%	1/6W	
R117	1-247-831-00	CARBON	1K	5%	1/6W	
R118	1-247-831-00	CARBON	1K	5%	1/6W	
R119	1-247-831-00	CARBON	1K	5%	1/6W	
R120	1-247-815-00	CARBON	220	5%	1/6W	
R121	1-247-815-00	CARBON	220	5%	1/6W	
R122	1-247-815-00	CARBON	220	5%	1/6W	
R123	1-247-815-00	CARBON	220	5%	1/6W	
R124	1-247-815-00	CARBON	220	5%	1/6W	
R125	1-247-815-00	CARBON	220	5%	1/6W	
R126	1-247-815-00	CARBON	220	5%	1/6W	
R127	1-247-815-00	CARBON	220	5%	1/6W	
R128	1-247-815-00	CARBON	220	5%	1/6W	
R129	1-247-823-00	CARBON	470	5%	1/6W	
R130	1-247-823-00	CARBON	470	5%	1/6W	
R131	1-247-783-00	CARBON	10	5%	1/6W	
R132	1-247-845-00	CARBON	3.9K	5%	1/6W	
R201	1-247-863-00	CARBON	22K	5%	1/6W	
R202	1-247-863-00	CARBON	22K	5%	1/6W	
R203	1-247-855-00	CARBON	10K	5%	1/6W	
R204	1-249-421-11	CARBON	2.2K	5%	1/6W	
R212	1-247-819-00	CARBON	330	5%	1/6W	
R213	1-247-819-00	CARBON	330	5%	1/6W	
R214	1-247-825-00	CARBON	560	5%	1/6W	
R215	1-247-825-00	CARBON	560	5%	1/6W	
R216	1-247-825-00	CARBON	560	5%	1/6W	
R220	1-247-863-00	CARBON	22K	5%	1/6W	
R223	1-247-863-00	CARBON	22K	5%	1/6W	
R226	1-247-861-00	CARBON	18K	5%	1/6W	
R227	1-247-851-00	CARBON	6.8K	5%	1/6W	
R228	1-247-861-00	CARBON	18K	5%	1/6W	
R229	1-247-807-00	CARBON	100	5%	1/6W	
R230	1-247-863-00	CARBON	22K	5%	1/6W	
R231	1-247-863-00	CARBON	22K	5%	1/6W	
R232	1-247-863-00	CARBON	22K	5%	1/6W	
R233	1-247-863-00	CARBON	22K	5%	1/6W	
R234	1-247-863-00	CARBON	22K	5%	1/6W	
R235	1-247-847-00	CARBON	4.7K	5%	1/6W	
R236	1-247-847-00	CARBON	4.7K	5%	1/6W	
R237	1-247-847-00	CARBON	4.7K	5%	1/6W	
R238	1-247-891-00	CARBON	330K	5%	1/6W	
R239	1-247-889-00	CARBON	270K	5%	1/6W	

ELECTRICAL PARTS

Ref.No.	Part No.	Description				
R240	1-247-891-00	CARBON	330K	5%	1/6W	
R241	1-247-889-00	CARBON	270K	5%	1/6W	
R242	1-247-855-00	CARBON	10K	5%	1/6W	
R243	1-247-855-00	CARBON	10K	5%	1/6W	
R244	1-247-815-00	CARBON	220	5%	1/6W	
R245	1-247-887-00	CARBON	220K	5%	1/6W	
R246	1-247-879-00	CARBON	100K	5%	1/6W	
R250	1-247-860-00	CARBON	16K	5%	1/6W	
R251	1-247-879-00	CARBON	100K	5%	1/6W	
R252	1-247-823-00	CARBON	470	5%	1/6W	
R253	1-247-855-00	CARBON	10K	5%	1/6W	
R254	1-247-847-00	CARBON	4.7K	5%	1/6W	
R255	1-247-892-00	CARBON	360K	5%	1/6W	
R257	1-247-859-00	CARBON	15K	5%	1/6W	
R258	1-247-879-00	CARBON	100K	5%	1/6W	
R259	1-247-813-00	CARBON	180	5%	1/6W	
R260	1-247-849-00	CARBON	5.6K	5%	1/6W	
R261	1-247-815-00	CARBON	220	5%	1/6W	
R262	1-247-855-00	CARBON	10K	5%	1/6W	
R263	1-247-775-00	CARBON	4.7	5%	1/6W	
R265	1-247-867-00	CARBON	33K	5%	1/6W	
R266	1-247-855-00	CARBON	10K	5%	1/6W	
R267	1-247-855-00	CARBON	10K	5%	1/6W	
R268	1-247-871-00	CARBON	47K	5%	1/6W	
R269	1-247-887-00	CARBON	220K	5%	1/6W	
R270	1-247-879-00	CARBON	100K	5%	1/6W	
R271	1-247-879-00	CARBON	100K	5%	1/6W	
R272	1-247-879-00	CARBON	100K	5%	1/6W	
R273	1-247-879-00	CARBON	100K	5%	1/6W	
R274	1-247-879-00	CARBON	100K	5%	1/6W	
R275	1-247-879-00	CARBON	100K	5%	1/6W	
R276	1-247-879-00	CARBON	100K	5%	1/6W	
R278	1-247-855-00	CARBON	10K	5%	1/6W	
R279	1-247-855-00	CARBON	10K	5%	1/6W	
R280	1-247-855-00	CARBON	10K	5%	1/6W	
R281	1-247-855-00	CARBON	10K	5%	1/6W	
R282	1-247-815-00	CARBON	220	5%	1/6W	
R283	1-247-815-00	CARBON	220	5%	1/6W	
R284	1-247-807-00	CARBON	100	5%	1/6W	
R285	1-247-807-00	CARBON	100	5%	1/6W	
R286	1-247-863-00	CARBON	22K	5%	1/6W	
R287	1-247-855-00	CARBON	10K	5%	1/6W	
R288	1-247-860-00	CARBON	16K	5%	1/6W	
R290	1-247-863-00	CARBON	22K	5%	1/6W	
R404	1-247-836-00	CARBON	1.6K	5%	1/6W	
R405	1-247-811-00	CARBON	150	5%	1/6W	
R406	1-247-837-00	CARBON	1.8K	5%	1/6W	
R407	1-247-811-00	CARBON	150	5%	1/6W	
R408 ⚠	1-217-395-00	FUSIBLE	47	5%	1/4W	F
R501	1-247-903-00	CARBON	1M	5%	1/6W	
R502	1-247-857-00	CARBON	12K	5%	1/6W	
R505	1-247-861-00	CARBON	18K	5%	1/6W	
R506	1-247-807-00	CARBON	100	5%	1/6W	
R507	1-247-783-00	CARBON	10	5%	1/6W	
RY301	1-515-519-00	RELAY				

The components identified by shading and mark ⚠ are critical for safety. Replace only with part number specified.

Les composants identifiés par une trame et une marque ⚠ sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

ELECTRICAL PARTS

Ref.No.	Part No.	Description
S201	1-553-976-00	SWITCH, PUSH
S202	1-553-976-00	SWITCH, PUSH
S203	1-553-976-00	SWITCH, PUSH
S204	1-553-976-00	SWITCH, PUSH
S205	1-553-976-00	SWITCH, PUSH
S206	1-553-976-00	SWITCH, PUSH
S301	1-554-817-11	SWITCH, TONEARM
S302	1-553-331-21	SWITCH, PUSH (POWER)
S902 ⚠	1-552-535-00	(E)...SWITCH, SLIDE (VOLTAGE SELECTOR)
T901 ⚠	1-447-515-21	(US,Canadian)...TRANSFORMER, POWER
T901 ⚠	1-447-516-21	(AEP).....TRANSFORMER, POWER
T901 ⚠	1-447-517-31	(E).....TRANSFORMER, POWER
THP411	1-806-882-11	THERMISTOR (POSITIVE)
THP412	1-806-882-11	THERMISTOR (POSITIVE)
X101	1-527-380-21	CRYSTAL, OSC
X501	1-567-192-11	OSCILLATOR, CERAMIC

ACCESSORY & PACKING MATERIAL

No.	Part No.	Description
501	X-4887-418-1	(SOME US WITHOUT ACCESSORY CARTRIDGE:BLACK) ....SCREW ASSY, CARTRIDGE FITTING
502	*3-701-616-00	BAG, POLYETHYLENE
503	3-795-753-21	INSTRUCTION
504	4-887-481-01	(BLACK)...SCREW (B), CARTRIDGE FITTING
505	X-4887-419-1	(SOME US WITHOUT ACCESSORY CARTRIDGE:SILVER) ...SCREW ASSY, CARTRIDGE FITTING
506	3-701-616-00	BAG, POLYETHYLENE
507	3-795-753-21	INSTRUCTION
508	4-887-481-01	(BLACK)....SCREW (B), CARTRIDGE FITTING
	4-887-481-11	(SILVER)...SCREW (B), CARTRIDGE FITTING
509	1-556-372-41	CORD, CONNECTION (4 CORE)
510	1-557-569-11	CORD, CONNECTION
511	*3-701-630-00	BAG, POLYETHYLENE
512	3-701-806-00	ADAPTOR, 45, (E)
513	3-760-547-11	(AEP,E).....MANUAL, INSTRUCTION
	3-760-547-21	(US,Canadian)...MANUAL, INSTRUCTION
	3-760-547-31	(Canadian).....MANUAL, INSTRUCTION
	3-760-547-41	(AEP).....MANUAL, INSTRUCTION
514	4-883-720-00	TURNTABLE
515	4-883-723-01	(AEP,E).....SHEET, TURNTABLE
	4-883-723-11	(US,Canadian)...SHEET, TURNTABLE
516	3-565-234-00	BAG, PROTECTION (UNIT)
517	3-701-634-00	BAG, POLYETHYLENE (TURNTABLE)
518	3-703-137-00	SCREW, SELF-TAPPING
519	3-703-895-01	(BLACK)....LABEL, COLOR
520	3-703-906-01	(SILVER)...LABEL, COLOR
521	4-350-525-00	SHEET, PROTECTION
522	4-880-101-00	PLATE (B), PROTECTION
523	4-885-779-00	BOLSTER, ARM
524	4-885-780-00	CUSHION, ARM
525	4-885-782-00	PROTECTOR (B)
526	4-887-309-11	LABEL (A), CAUTION
527	4-887-420-00	CUSHION (RIGHT)
528	4-887-421-00	CUSHION (LEFT)
529	4-887-423-00	HOLDER, TURNTABLE
530	4-887-441-01	COVER, ARM LOCK
531	4-887-482-01	(PS-LX520)....NDIVIDUAL CARTON
	4-887-483-01	(PS-LX520C)...NDIVIDUAL CARTON
532	1-549-117-21	(Canadian,SOME US)...CARTRIDGE:VL-45G (B)
533 ⚠	1-526-565-12	(E)....ADAPTOR, AC PLUG

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